SERVICE MANUAL

SR6000

marantz

model SR6000

Stereophonic Receiver

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, MARANTZ Company has created the ultimate in stereo sound. Only original MARANTZ parts can insure that your MARANTZ product will continue to perform to the specifications for which it is famous.

Parts for your MARANTZ stereo are generally available within 72 hours throughout the nation via a toll-free line to our National Parts Depot in California. The sales professionals who take your call immediately refer to their own desk top computer terminal and can quickly determine the availability and price information you require. If, for some reason, your order should exceed our available stock, we usually can instantly provide an alternate replacement part or current delivery information. When the order is placed and confirmed, the computer simultaneously generates "hard copy" orders at the distribution center. As hard copies come directly from the computer to the national parts depot, your requested stock is assembled and prepared for shipment and placed on the first available carrier for delivery to you.

ORDERING PARTS

Phone orders will eliminate mail delays, and we encourage the use of this method. If you order by mail, use MARANTZ parts order forms which are available from our National Parts Depot located at the following address:

SUPERSCOPE NATIONAL PARTS DEPARTMENT
20525 Nordhoff Street
Chatsworth, California 91311
Phone: 1-800-423-5108
1-213-998-9333

The following information must be supplied to eliminate delays in processing your order:

1. Complete address.
2. Complete part numbers.
3. Complete description of parts.
4. Model number for which part is required (indicate MARANTZ).
5. Account number (for account customers only).

Direct consumers will be provided with the current retail price quotation on available parts in order to advise them of the cost of the parts and shipping.

OVERSEAS PARTS ORDERING

Parts may also be ordered from the following overseas addresses:

CANADA

Superscope Canada, Ltd.
3710 Nashua Drive
Mississauga
Ontario, Canada L4V1M5

AUSTRALIA

Superscope (Australasia) Pty., Ltd.
32 Cross Street (P.O. Box 604)
Brookvale 2100 N.S.W.
Australia

JAPAN

Marantz Japan, Inc.
3622 Kamitsuruma
Sagamihara Shi
Kanagawa, Japan

EUROPE

Superscope Europe, S.A.
Avenue Leopold III, 2
7120 Peronnes-Lez-Binche
Belgium

Marantz France
Rue Louis Armand 9
92600 Asnieres
Hauts-de-Seine
France

Marantz Audio U.K. Ltd.
London Road, 203
Staines
Middlesex
England

Superscope GmbH
Max-Planck-Strasse 22
D-6072 Dreieich 1
West Germany

All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please contact the nearest facility for the necessary assistance.

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We sound better.

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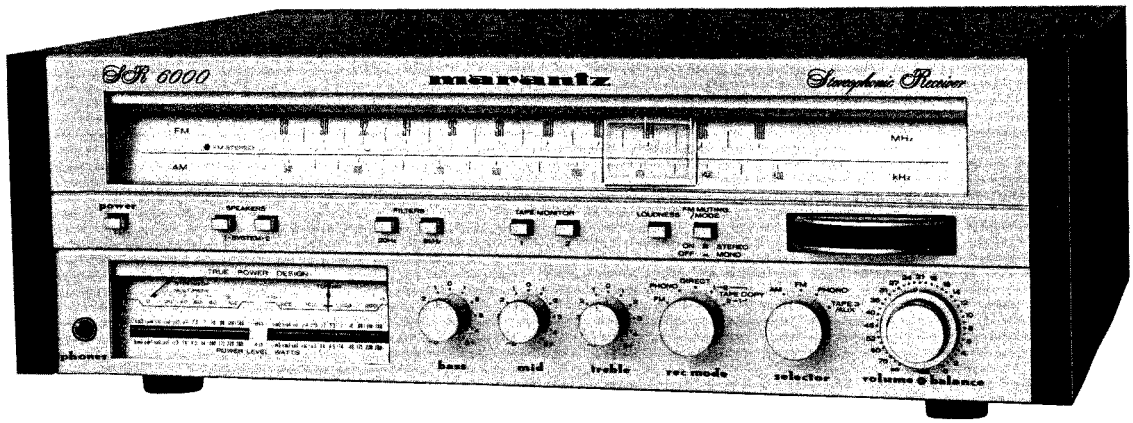
MODEL SR-6000 STEREOPHONIC RECEIVER



INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for Marantz Model SR-6000 Stereophonic Receiver.

Servicing information and voltage data included in this manual are intended for use by the knowledgeable and experienced technician only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of the operation of the receiver.

The parts list furnishes information by which replacement parts may be ordered from the Marantz Company. A simple description is included for parts which can usually be obtained through local suppliers.

1. P.W. BOARDS

As can be seen from the circuit diagram the chassis of Model SR-6000 consists of the following units. Each unit mounted on a printed circuit board is described within the square enclosed by a bold dotted line on the circuit diagram.

1. Tuner/Phono . . . . . mounted on P.W. Board P100
2. Power Amp . . . . . mounted on P.W. Board P700
3. Power Supply . . . . . mounted on P.W. Board P800
4. Tone Amp . . . . . mounted on P.W. Board PE00
5. Volume . . . . . mounted on P.W. Board PG00
6. Power LED Meter . . . . mounted on P.W. Board PK01
7. Power LED Meter Amp . . . . . mounted on P.W. Board PK02
8. Voltage Amp . . . . . mounted on P.W. Board PN00
9. Switch . . . . . mounted on P.W. Board PS00
10. Speaker Switch . . . . . mounted on P.W. Board PT00
11. Tape Input . . . . . mounted on P.W. Board PV00
12. Headphone . . . . . mounted on P.W. Board PW00
13. Meter . . . . . mounted on P.W. Board PX00
14. Stereo LED . . . . . mounted on P.W. Board PY00
15. Dial Pointer Lamp . . . mounted on P.W. Board PZ00

NOTE ON SAFETY: **THE PARTS MARKED WITH ⚠ ARE IMPORTANT PARTS ON THE SAFETY. PLEASE USE THE PARTS HAVING THE DESIGNATED PARTS NUMBERS WITHOUT FAIL.**

FTZ REGULATION

Instruction for the use in the range other than specified in FTZ codes.

Achtung für die Leute, die in dem Gebiet wohnen, wo die FTZ-Bestimmungen vorherrschend sind.

Sollte das Gerät auch für Frequenzen auszerhalb des in den FTZ-Bestimmungen angegebenen Bereiches empfangebereit sein, bitten wir, den Bereich durch Nachstellen des Kernes in der Oszillatorspule (in der Abbildung mit "FTZ" gekennzeichnet) so zu korrigieren, dass er den Bestimmungen entspricht.

2. TEST EQUIPMENT REQUIRED FOR SERVICING

This table lists the test equipment required for servicing the Model SR-6000 Receiver.

Item	Manufacturer and Model No.	Use
AM Signal Generator		Signal source for AM alignment
Test Loop		Use with AM Signal Generator
FM Signal Generator MPX Signal Generator	Sound Technology Model 1000A	Signal source for FM alignment Stereo separation alignment and trouble shooting
Distortion Analyzer Audio Oscillator AC VTVM	Sound Technology Model 1700A	Distortion measurements Sinewave and squarewave signal source Voltage measurements (AC)
Oscilloscope	Tektronix Model T932 Philips Model 3232	Waveform analysis and trouble shooting and ASO alignment
Frequency Counter	Fluke Model 1900A	MPX Oscillator adjustment (VCO)
Circuit Tester		Trouble shooting
DC VTVM	Fluke Model 8000 "Digital" Simpson Model 313, Triplet Model 801	Voltage measurements (DC)
AC Wattmeter	Simpson Model 1379	Monitors primary power to amplifier
AC Ammeter	Commercial Grade (1-10A)	Monitors amplifier output under short circuit condition
Line Voltmeter	Simpson Model 1359	Monitors potential of primary power to amplifier
Variable Autotransformer	Superior Electronic Co., Powerstat Model 116B–10A	Adjusts level of primary power to amplifier
Shorting Plug	Use phono plug with 600-ohm across center pin and shell	Shorts amplifier input to eliminate noise pickup
Output Load (8 ohms, ± 0.5%, 100W)	Commercial Grade	Provides 8-ohm load for amplifier output termination
Output Load (4 ohms, ± 0.5%, 100W)	Commercial Grade	Provides 4-ohm load for amplifier output termination

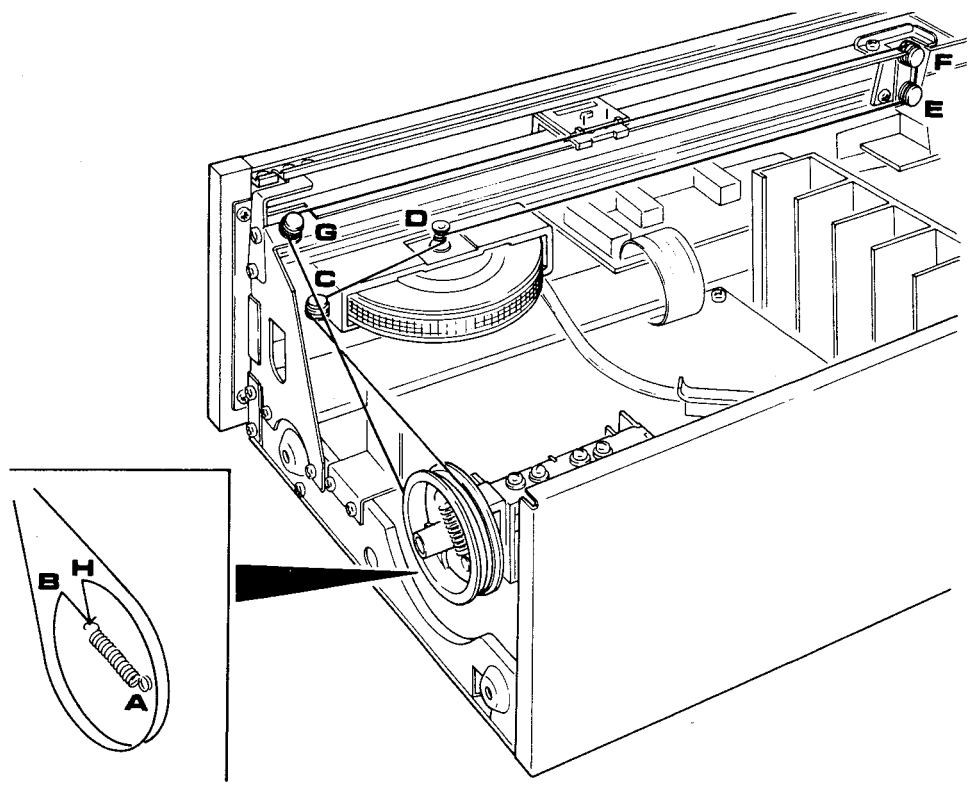


Figure 1. Dial Stringing

3. ALIGNMENT PROCEDURES

* A dummy resistor of 47 kohms must be connected across the tape output terminals before alignment.

3.1 FM ALIGNMENT PROCEDURES

(Selector switch in the "FM" position)

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set Dial Pointer to:	Adjust:
FM IF ALIGNMENT					
1	Sweep generator to point Ⓑ through 5pF capacitor	10.7 MHz marker at 10.6, 10.7 and 10.8 MHz	Oscilloscope to point Ⓒ	Quiet point on band.	L105 for maximum and symmetric response.
2			Oscilloscope to point Ⓓ		L109 & L110 for straight and symmetric "S" curve response.
3	Repeat steps 1 and 2.				
FM RF ALIGNMENT					
1	RF generator to FM antenna terminals Ⓐ through matching network (300 ohms, balanced) Maintain RF level below limit.)	87.4 MHz	VTVM to L or R channel output (JV11)	87.3 MHz with tuning gang closed.	L106 for maximum output.
2		109 MHz		109 MHz with tuning gang open.	C111 for maximum output.
3		90 MHz		90 MHz	L101, L103 for maximum output.
4		106 MHz		106 MHz	Ant. RF trimmer for maximum output.
5	Repeat steps 1 to 4.				
6	Check overall response curve and repeat above steps as necessary to obtain maximum sensitivity.				
7	No connection	No signal	–	–	L109 core for FM TUNING meter (MX01) pointer indicated its center.
8	RF generator 1 mV output to FM antenna terminals Ⓐ through matching network (300 ohms, balanced)	98 MHz	Distortion meter to L or R channel output (JV11)	98 MHz	L110 core for minimum distortion.
9			–		R134 to R136 so that signal strength meter MX02 may read 80%.
MUTING CIRCUIT ALIGNMENT					
1	RF generator 12.5μV output to FM antenna terminals Ⓐ through matching network (300 ohms, balanced)	98 MHz	VTVM to R or L channel output (JV11)	98 MHz	R131 for 12.5μV threshold level. (During the adjustment turn the FM MUTING push-switch "ON").

3.2 MULTIPLEX ALIGNMENT PROCEDURES
(Selector switch in the "FM" position)

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set Dial Pointer to:	Adjust:
1	RF generator to FM antenna terminals Ⓐ through matching network (300 ohms, balanced), with 1mV FM stereo simulator RF level and 100% modulation (pilot 9%)	No modulation	Frequency counter to point Ⓓ (J302)	98 MHz	R302 so that frequency counter may precisely read 76 kHz.
2		Stereo, left (1,000 Hz)	VTVM to right channel (JV11)		R326 for maximum output and same separation in both channels.
3		Stereo, right (1,000 Hz)	VTVM to left channel output terminal (JV11)		
4	Repeat steps 2 and 3.				
5	RF generator to FM antenna terminals A through matching network (300 ohms, balanced), with 1mV FM stereo simulator RF level and 100% modulation (pilot 9%)	Pilot only	VTVM to right channel output (JV11)	98 MHz	R306 so that minimum output should be the same in both channels.

3.3 AM ALIGNMENT PROCEDURES
(Selector switch in the "AM" position)

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set Dial Pointer to:	Adjust:
AM IF ALIGNMENT					
1	Sweep generator to point Ⓔ	450 kHz marker	Oscilloscope to point Ⓕ (JA03)	Quiet point on band.	LA02 & LA03 for maximum and symmetric response.
AM RF ALIGNMENT					
1	RF generator to AM antenna terminals through IHF dummy	525 kHz	VTVM to L or R channel output (JV11)	525 kHz with tuning gang closed.	LA01 for maximum output.
2		1,630 kHz		1,630 kHz with tuning gang open.	OSC. trimmer for maximum output.
3		600 kHz		600 kHz	L051 for maximum output.
4		1,400 kHz		1,400 kHz	Ant. trimmer for maximum output.
5	Repeat steps 1 to 4 as necessary to obtain maximum sensitivity.				

3.4 AUDIO ALIGNMENT PROCEDURES

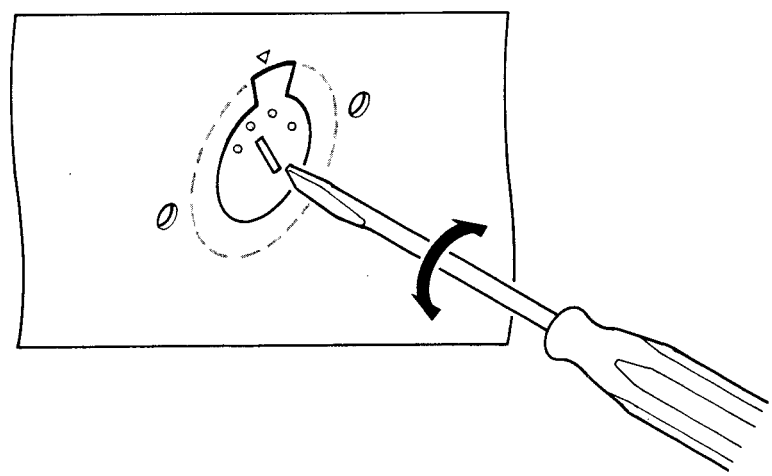
(Selector switch in the "AUX" position)

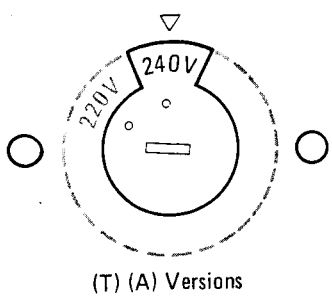
Step	Signal Source Connection	Signal Frequency	Indicator Connection	Adjustment
1	–	–	DC voltmeter in 100 mV or 50 mV range to speaker terminals.	Set RG01 to minimum position. Adjust RN09 (L-ch) and RN10 (R-ch) so that voltmeter reading is ±3 mV or less.
2	AF oscillator to AUX jack	1 kHz	DC voltmeter in 3 V range to JK07⊕ and JK03⊖ (L-ch), or JK08⊕ and JK03⊖ (R-ch). AC voltmeter in 30 V range to speaker terminals.	Connect 8 Ω load to speaker terminals. Adjust input signal so that output voltage at speaker terminal is 23.7 V. Adjust RK01 (L-ch) or RK02 (R-ch) so that voltage at JK07, or JK08 is 2.25 V. Check to ensure that LED reading is 70 W.

4. VOLTAGE CONVERSION

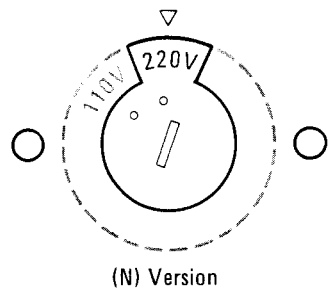
To convert the unit to a different power source voltage, change the position as illustrated in the drawing below.

CAUTION: DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE. DO NOT DISASSEMBLE THE VOLTAGE SELECTOR ABSOLUTELY.

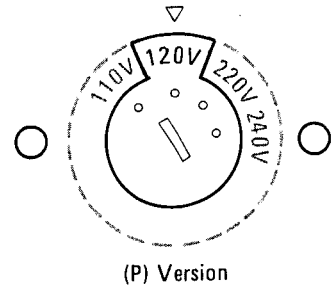




(T) (A) Versions



(N) Version

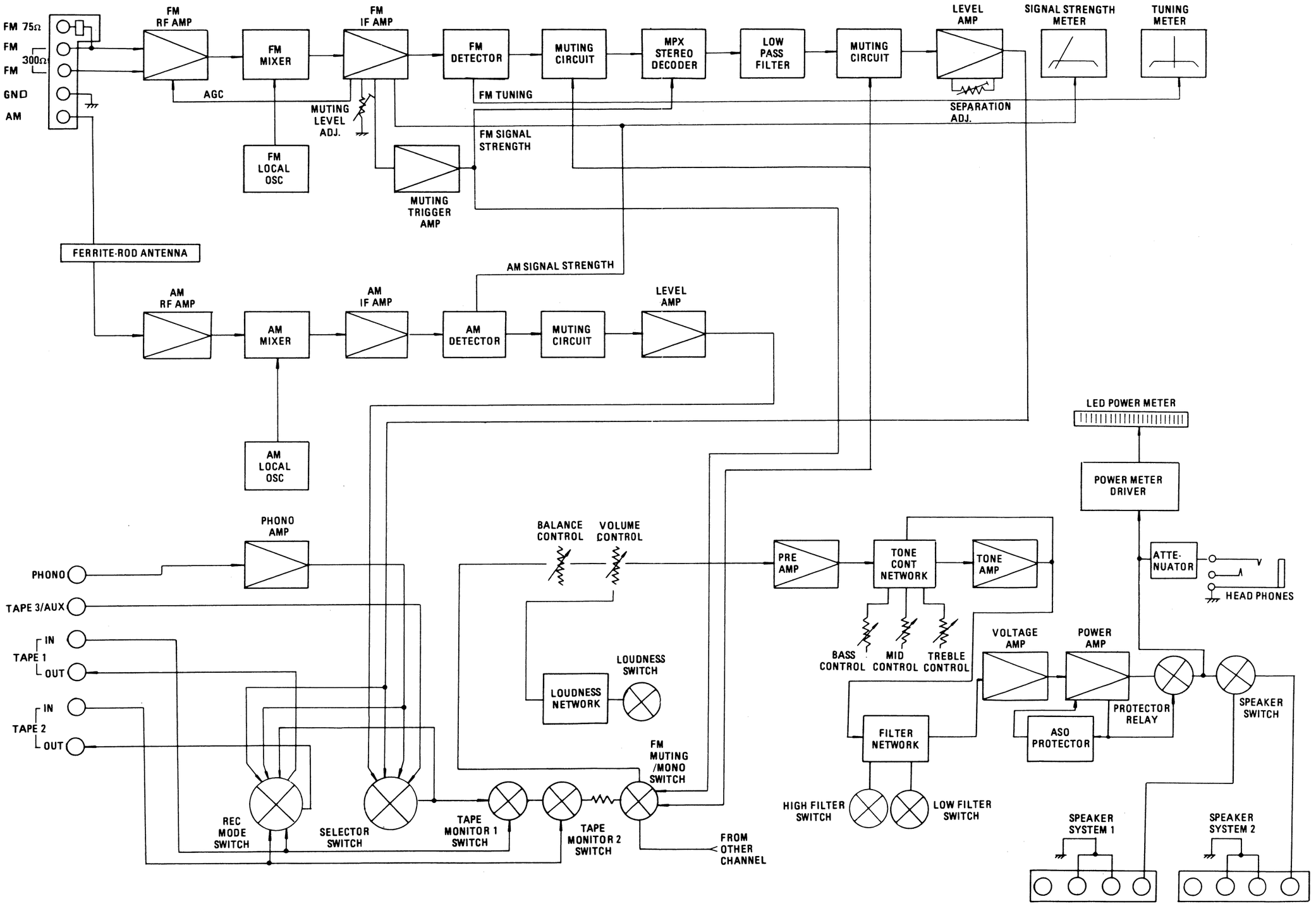


(P) Version

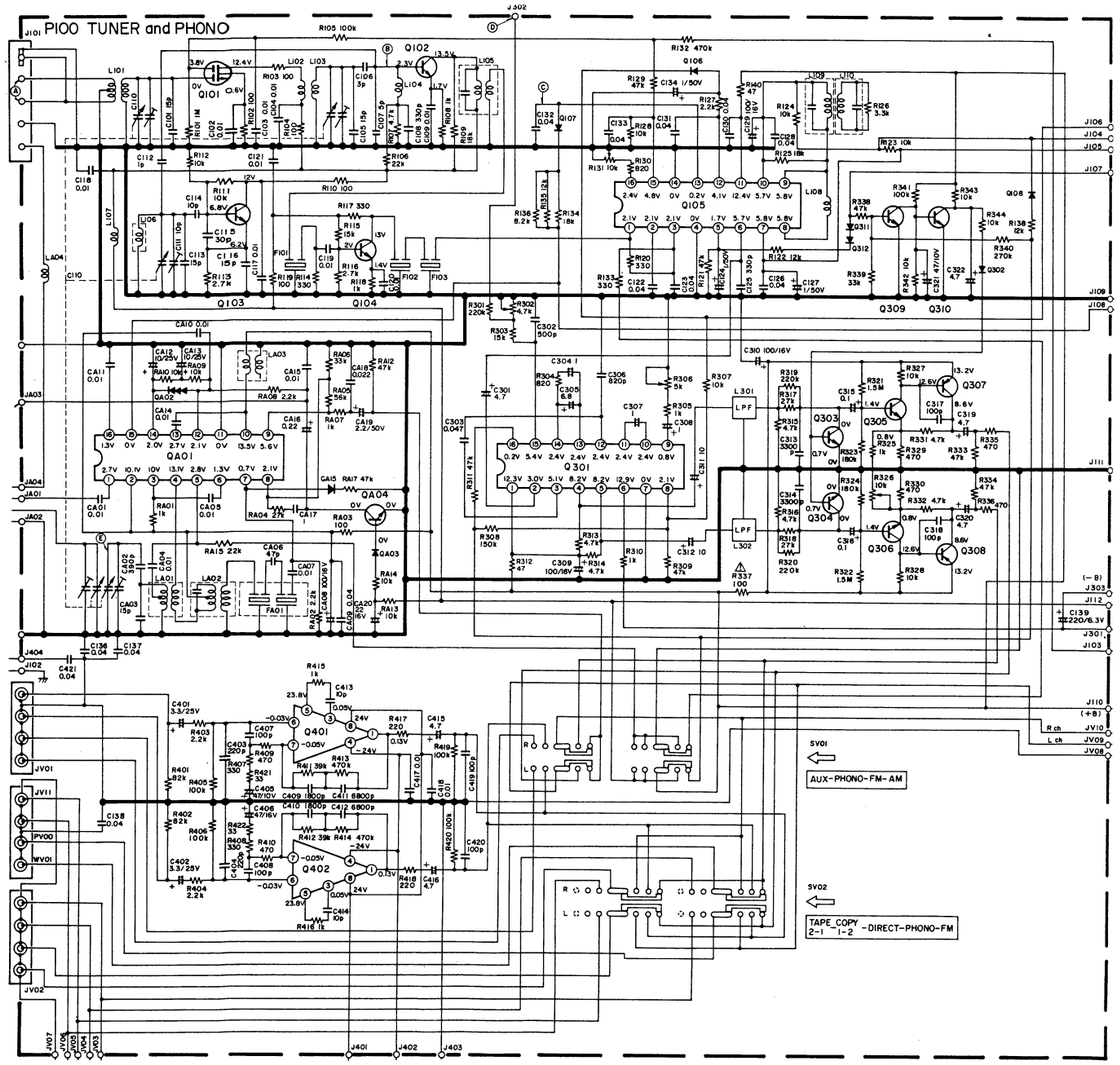
Figure 3. Voltage Conversion

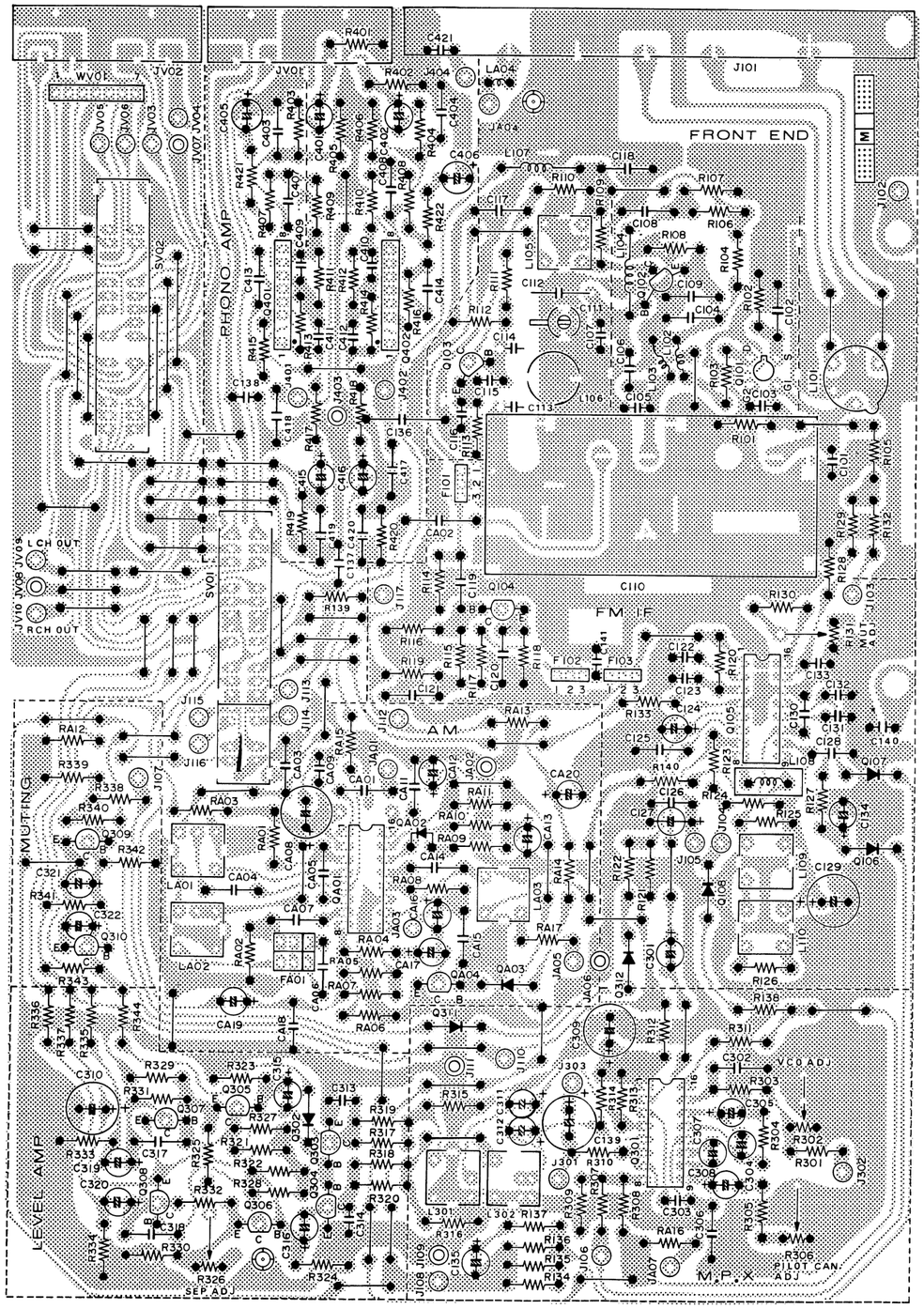
5. DIAGRAMS

5.1 BLOCK DIAGRAM

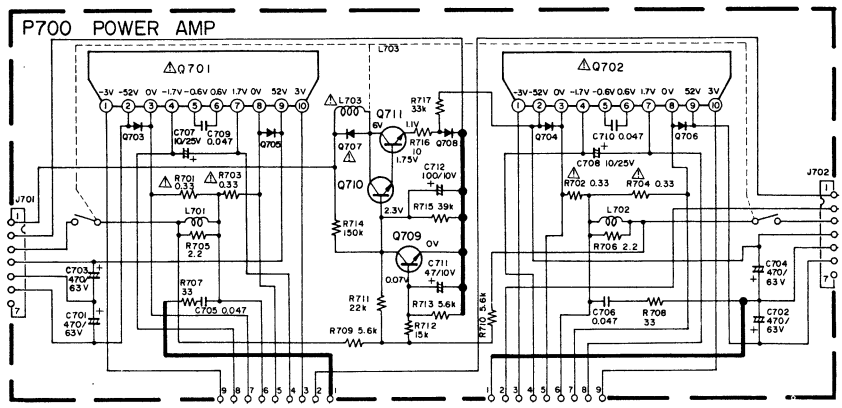


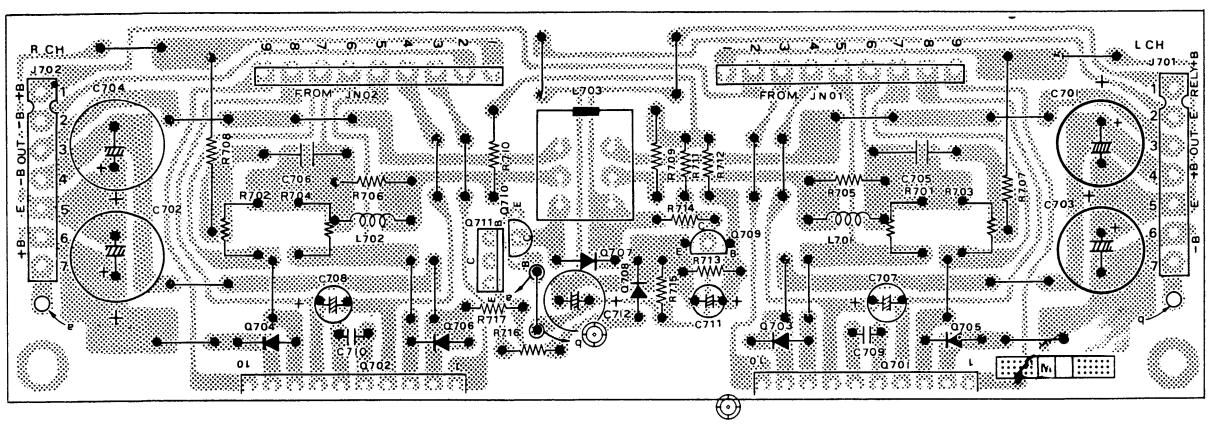
5.2 TUNER/PHONO BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - P100 (YK21161710)



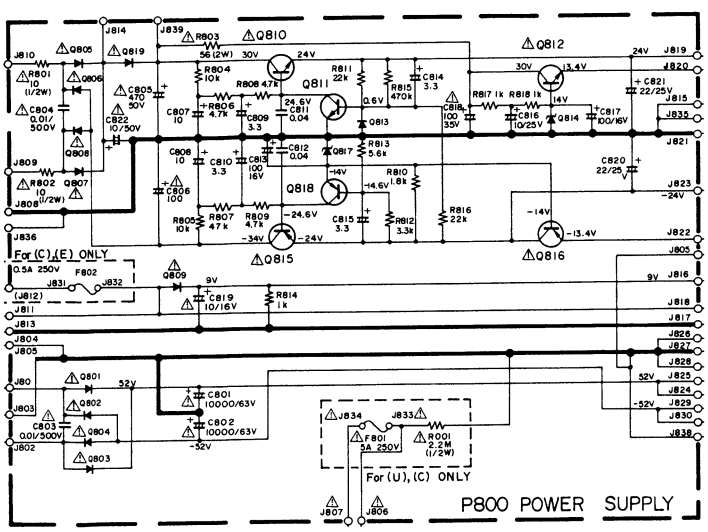


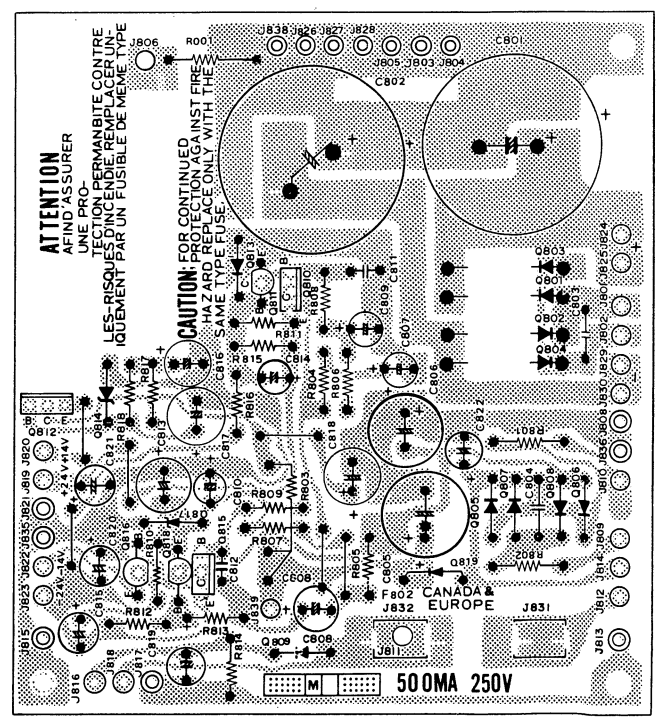
5.3 POWER AMP BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - P700



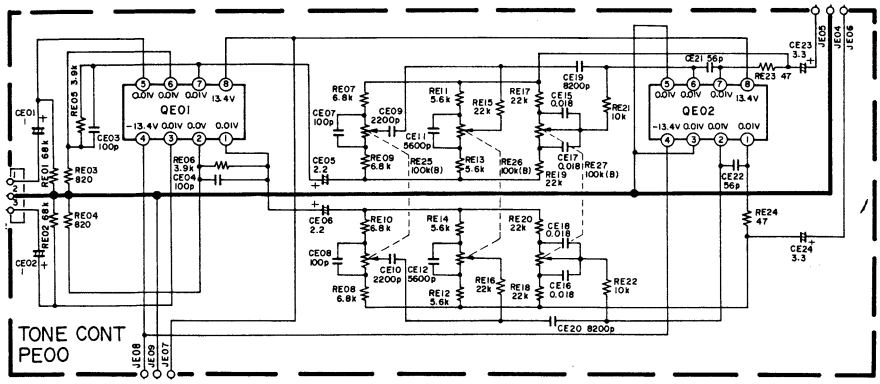


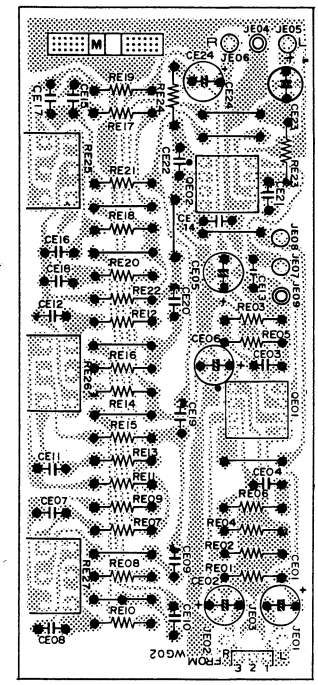
5.4 POWER SUPPLY BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - P800



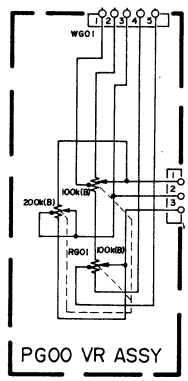


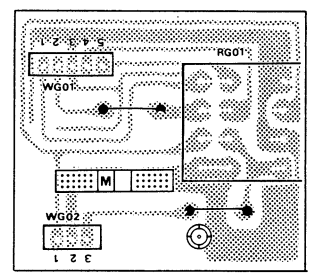
5.5 TONE AMP BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PE00



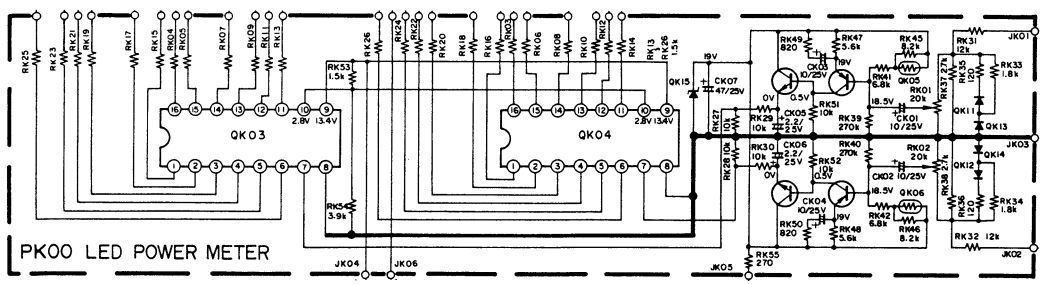


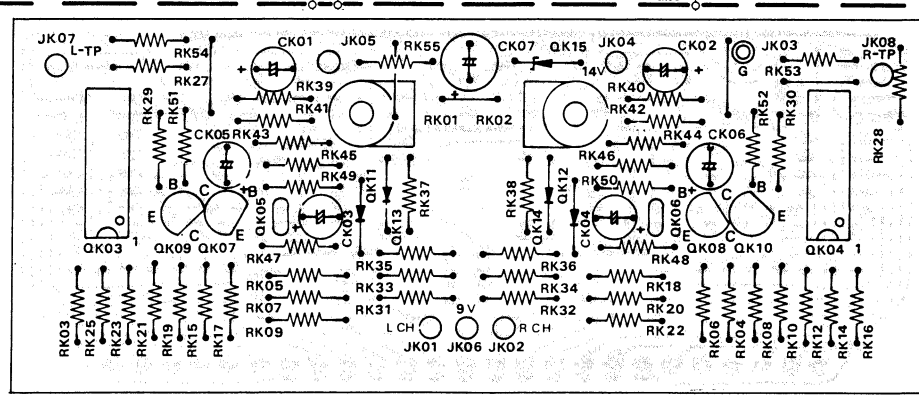
5.6 VOLUME BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PG00



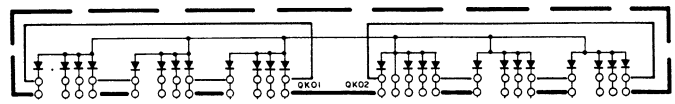


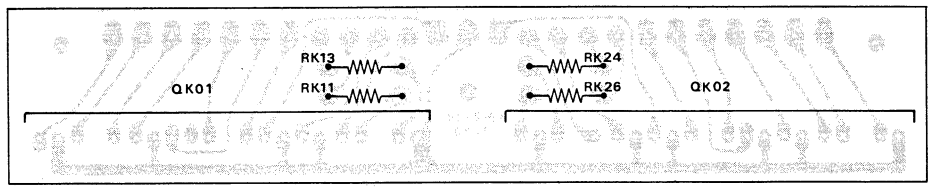
5.7 POWER LED METER AMP BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PK02



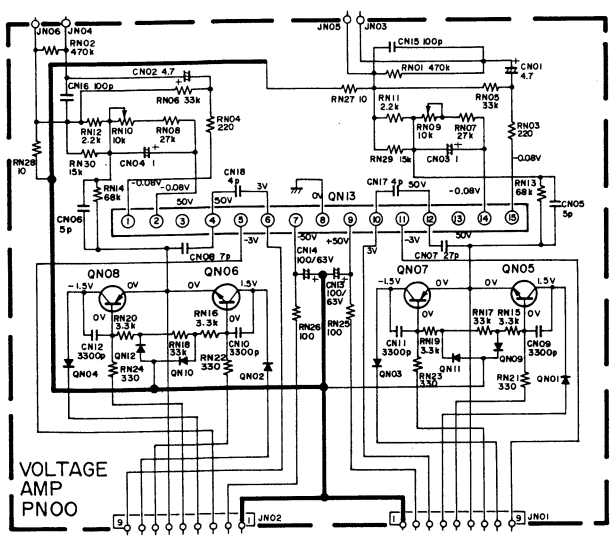


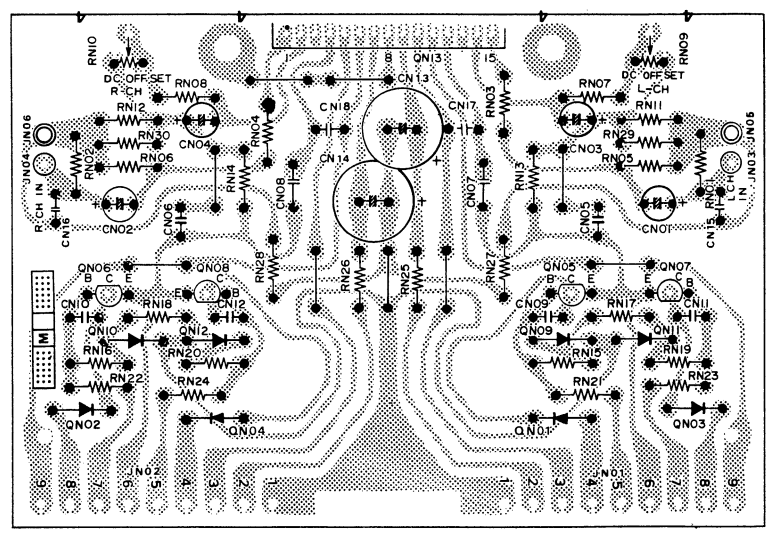
5.8 POWER LED METER BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PK01



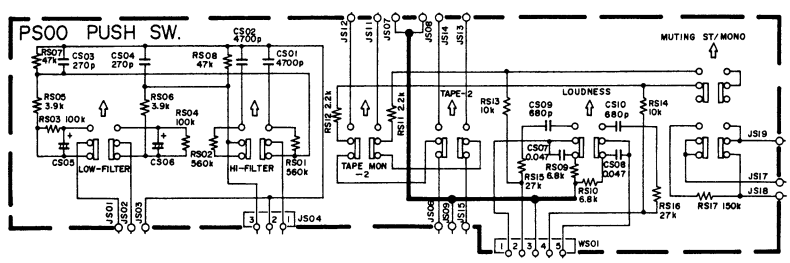


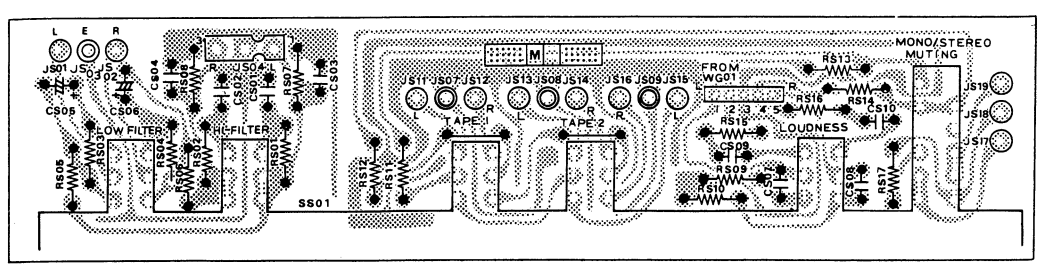
5.9 VOLTAGE AMP BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PN00



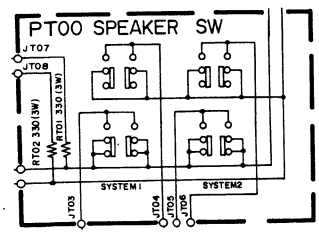


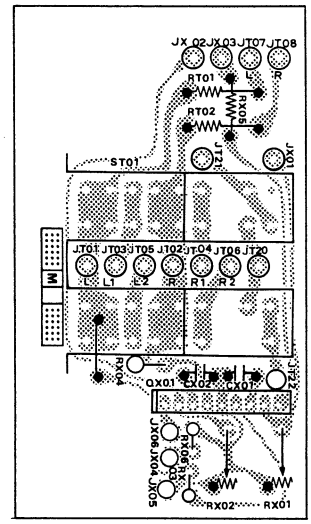
5.10 SWITCH BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PS00



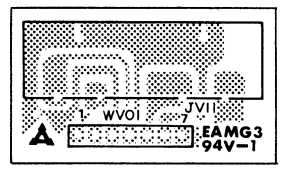


5.11 SPEAKER SWITCH BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PT00

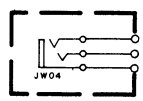


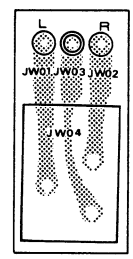


5.12 TAPE INPUT BOARD COMPONENT LOCATIONS - PV00

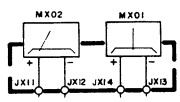


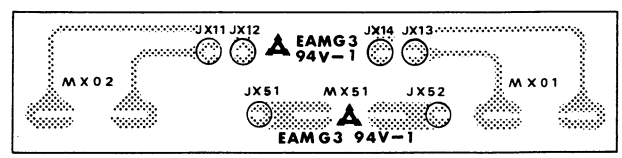
5.13 HEADPHONE BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PW00



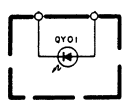


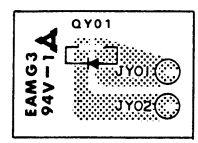
5.14 METER BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PX00



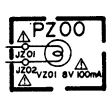


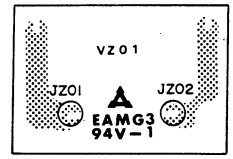
5.15 STEREO LED BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PY00





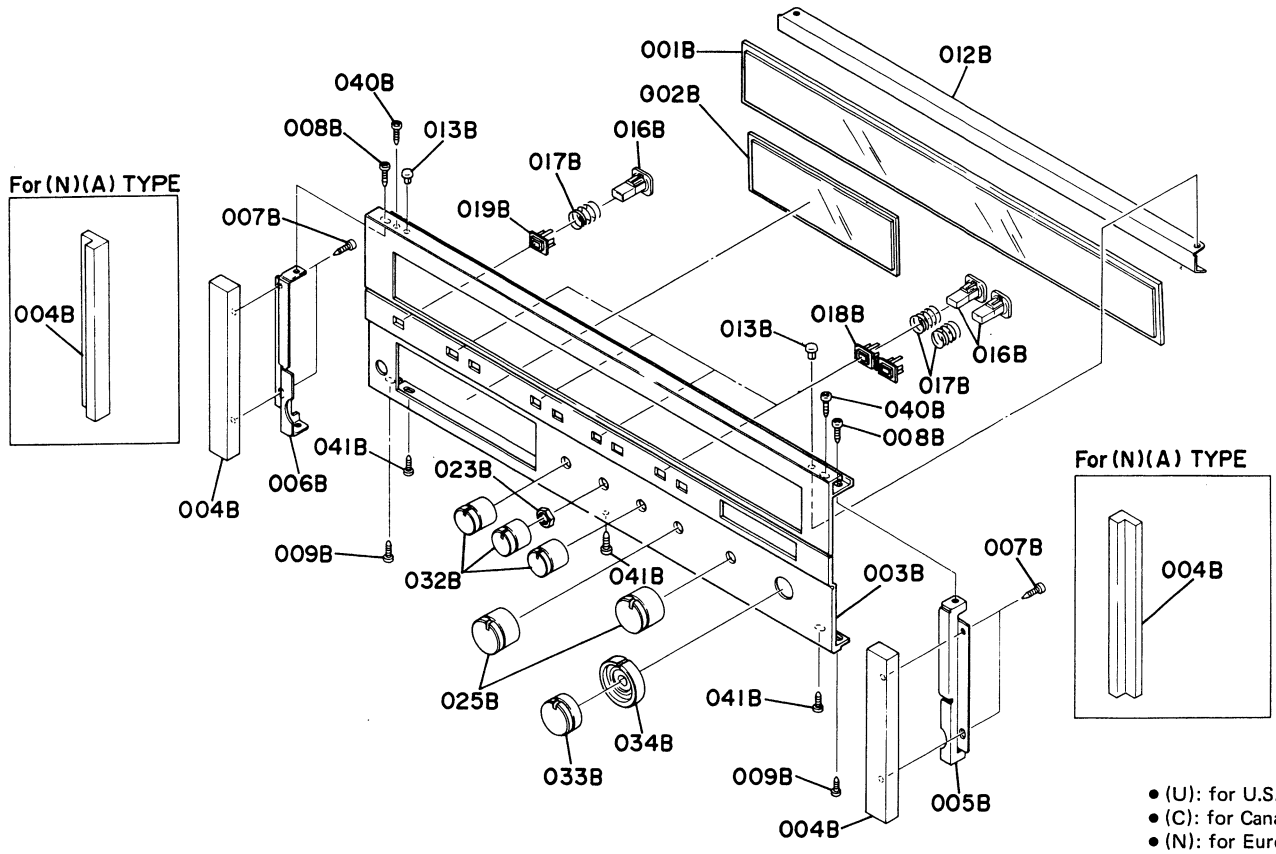
5.16 DIAL POINTER LAMP BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PZ00





6. EXPLODED VIEWS AND PARTS LIST

6.1 [C01-99] FRONT PANEL

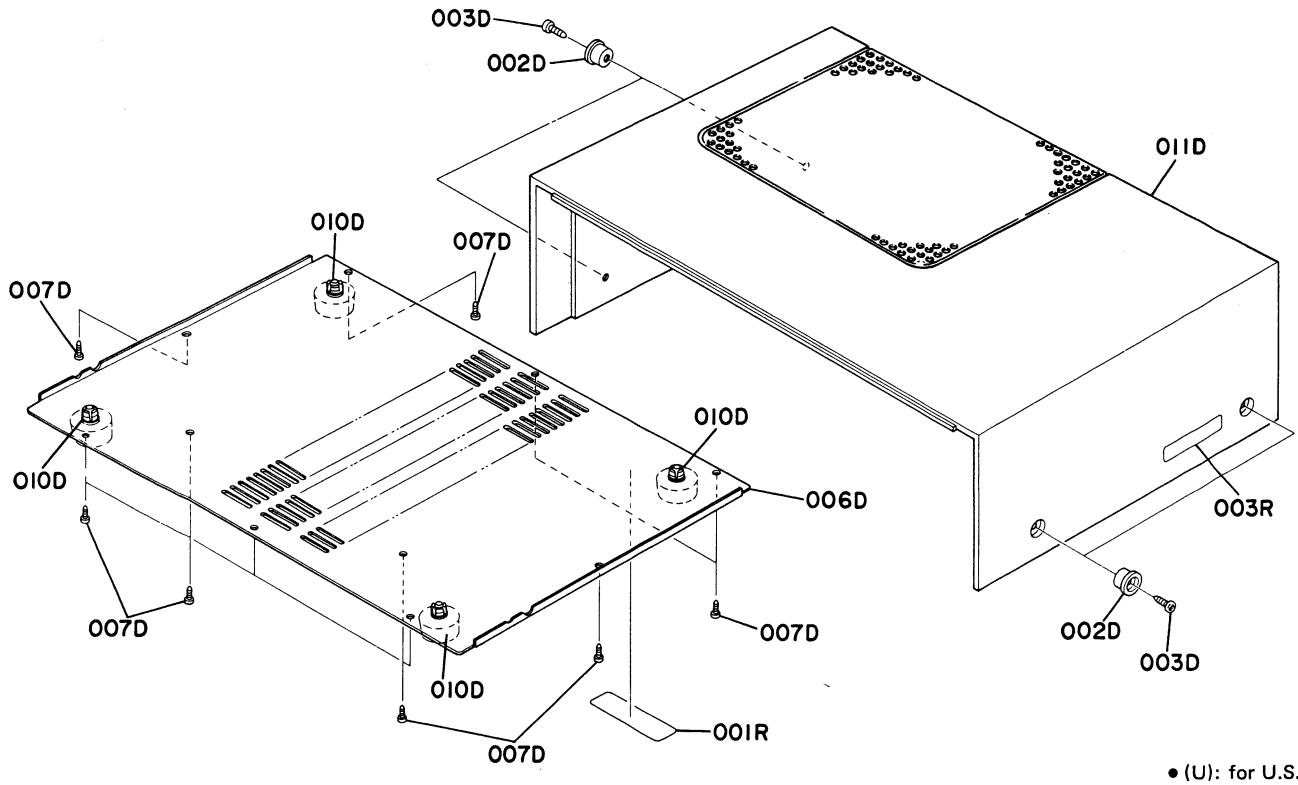


- (U): for U.S.A.
- (C): for Canada
- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
A	1	1			2116063400	Front Panel Assembly
A1			1	1	2116063410	Front Panel Assembly
001B	1	1	1	1	2112158110	Window, Dial
002B	1	1	1	1	2112158120	Window, Meter
003B	1	1	1	1	2116063013	Escutcheon
004B	2	2			2112063044	Escutcheon, Wood
004B			2	2	2112063052	Escutcheon, AL
005B	1	1	1	1	2112160020	Bracket (R)
006B	1	1	1	1	2112160030	Bracket (L)
007B	4	4			51400310A0	B.H. Tapped Screw B3 x 10
007B			4	4	51280306B0	B.H. Tapped Screw B3 x 6
008B	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
009B	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
012B	1	1	1	1	2112303010	Mask
013B	2	2	2	2	2276005050	Clamper
018B	4	4	4	4	2112259020	Bushing
019B	1	1	1	1	2112259030	Bushing

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
016B	9	9	9	9	2112154010	Knob
017B	9	9	9	9	2112115010	Spring
023B	1	1	1	1	53118169A0	Hexagon Nut
025B	2	2	2	2	2112154020	Knob
032B	3	3	3	3	2116154010	Knob
033B	1	1	1	1	2112154030	Knob
034B	1	1	1	1	2112154040	Knob
040B	2	2	2	2	51100308A9	B.H.M Screw B3 x 8
041B	3	3	3	3	51280308B0	B.H. Tapped Screw B3 x 8

6.2 [C02-99] TOP COVER

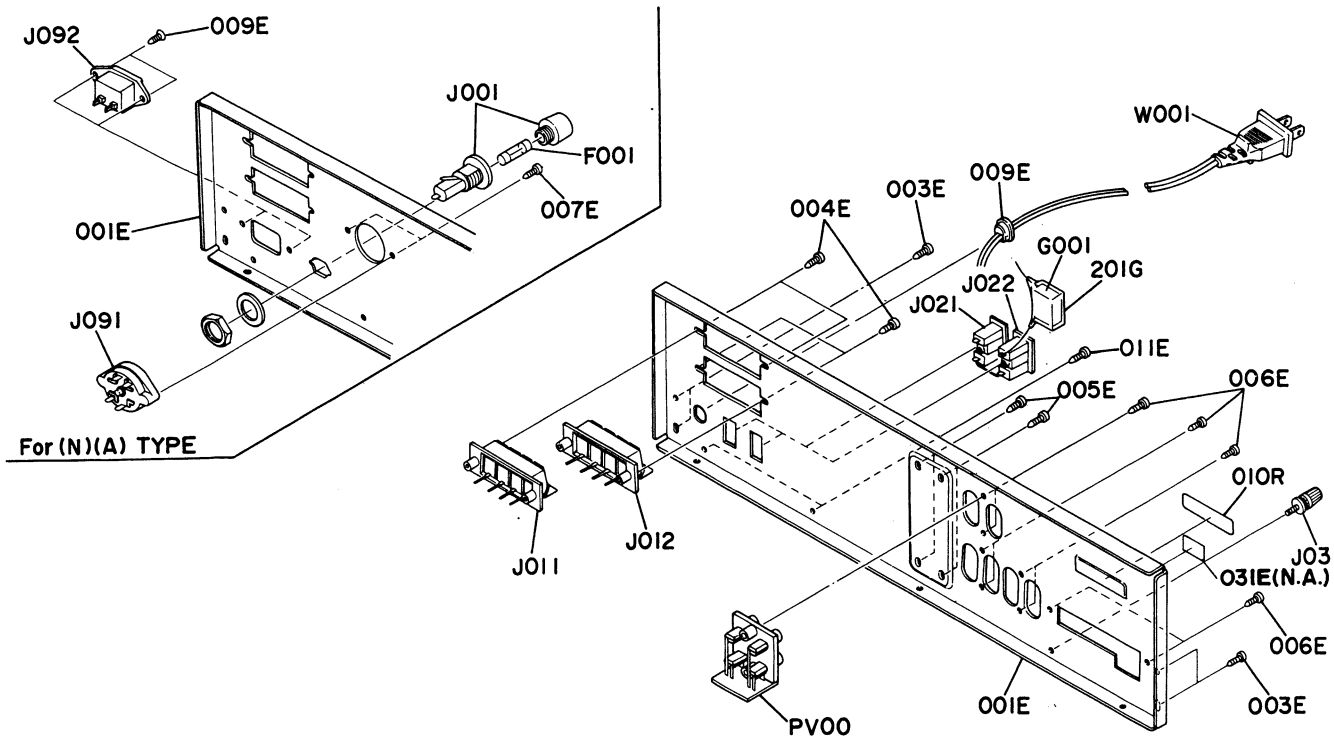


- (U): for U.S.A.
- (C): for Canada
- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
002D	4	4	4	4	3906259010	Bushing
003D	4	4	4	4	51280414U0	B.H. Tapped Screw B4 x 14
006D	1	1	1	1	2116257010	Lid, Bottom Cover
007D	12	12	12	12	5128041080	B.H. Tapped Screw B4 x 10
010D	4	4	4	4	2259057012	Leg
011D	1	1	1	1	2116064500	Case, Wood K

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
001R	1		1	1	2578861010	Label
001R		1			2911861112	Label
003R	1		1	1	2932861012	Label
003R		1			2911861143	Label

6.3 [C03-99] REAR PANEL

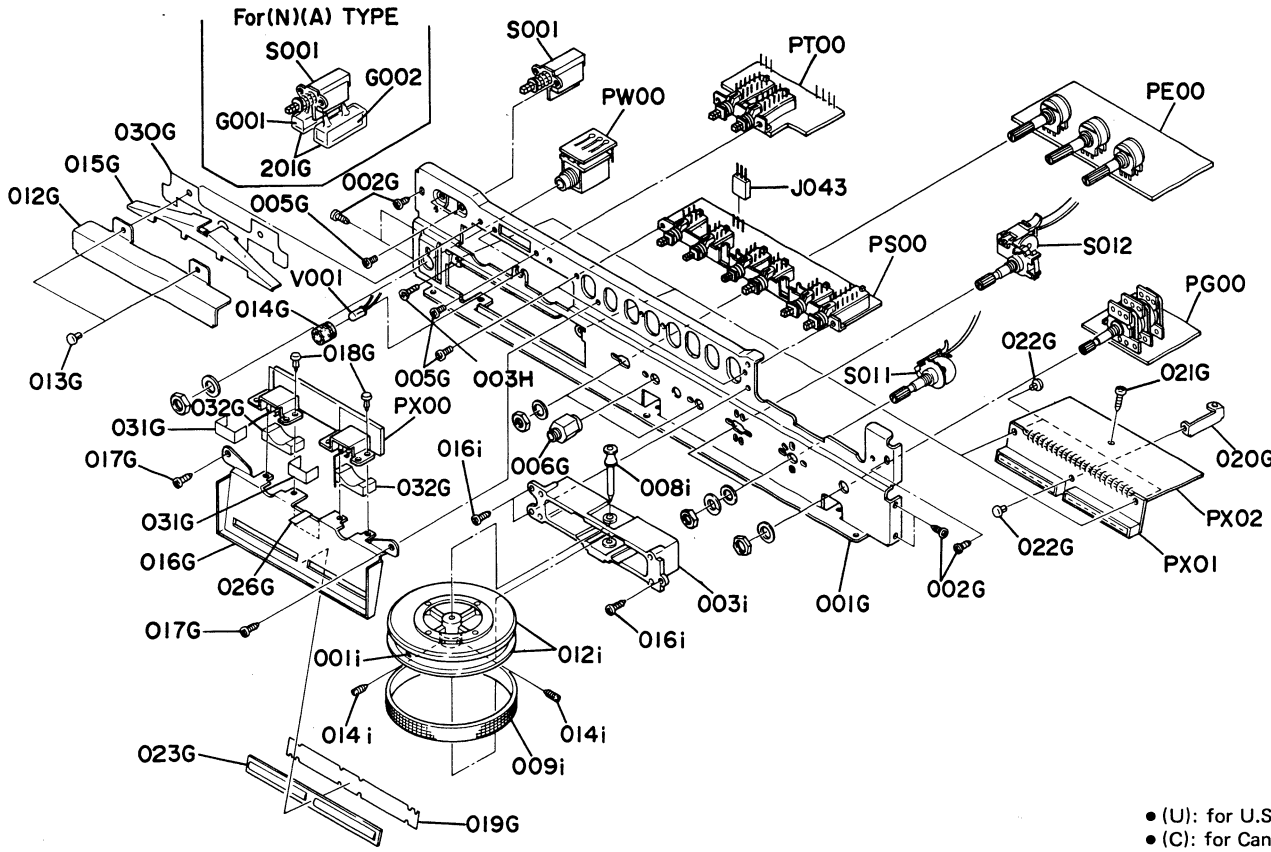


- (U): for U.S.A.
- (C): for Canada
- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
001E	1				2116160212	Bracket
001E		1			2116160232	Bracket
001E			1	1	2116160223	Bracket
003E	4	4	4	4	51280308U0	B.H. Tapped Screw B3 x 8
004E	4	4	4	4	51280308U0	B.H. Tapped Screw B3 x 8
005E	4	4	4	4	51280308U0	B.H. Tapped Screw B3 x 8
006E	8	8	8	8	51280308U0	B.H. Tapped Screw B3 x 8
007E			2	2	51280308U0	B.H. Tapped Screw B3 x 8
009E	1	1			1455259030	Bushing
009E			2	2	51420308T0	O.C.H. Tapped Screw 3 x 8
011E	2	2	2	2	51280308U0	B.H. Tapped Screw B3 x 8
031E			1	1	4581861010	Label
201G	1	1			3941120050	Insulator
G001	1				BF10400030	Spark Killer 0.1uF + 120Ω
G001		1			BF10400050	Spark Killer 0.1uF + 120Ω

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
⚠F001			1	1	FS10250800	Fuse 2.5AT 250V
⚠J001			1	1	YJ08000290	Jack, Fuse Holder
J011	1	1	1	1	YT03040170	Terminal, Speaker
J012	1	1	1	1	YT03040170	Terminal, Speaker
⚠J021	1	1			YJ04000560	Jack, AC Outlet
⚠J022	1	1			YJ04000560	Jack, AC Outlet
J031	1	1	1	1	YL03010240	Terminal, Ground
⚠J091			1	1	BY05080012	Plug, Voltage Selector
⚠J092			1	1	YP04000590	Plug, AC Inlet
⚠W001	1	1			YC02000150	A.C. Power Cord
010R	1	1	1	1	2112265010	Indicator

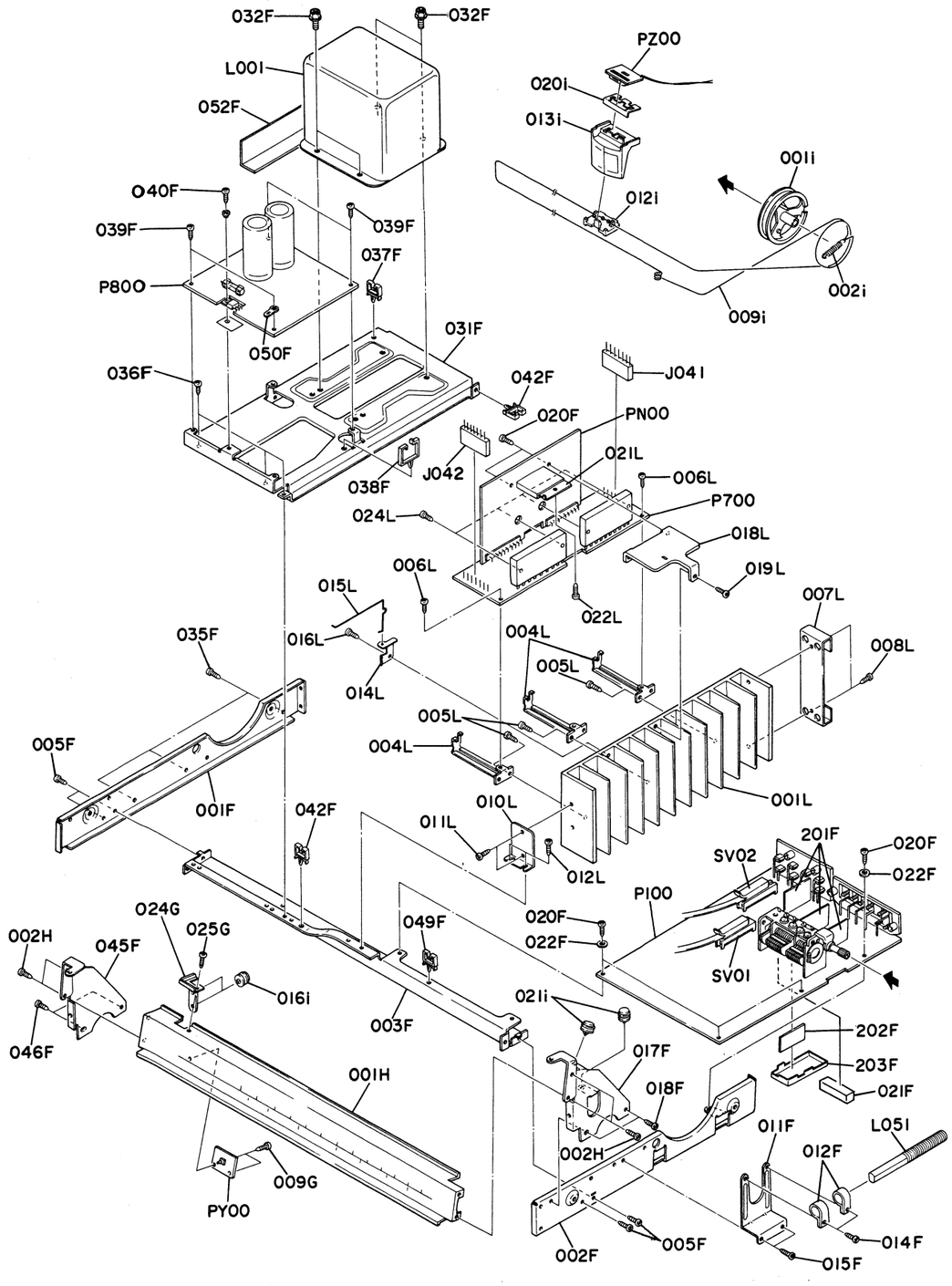
6.4 [P01-99] FRONT CHASSIS AND GENERAL PARTS



- (U): for U.S.A.
- (C): for Canada
- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
001G	1	1	1	1	2112160010	Bracket, Front Chassis
002G	6	6	6	6	51280308B0	B.H. Tapped Screw B3 x 8
006G	1	1	1	1	2112114012	Stopper
012G	1	1	1	1	2112303022	Mask
013G	2	2	2	2	2276005050	Clamper
014G	1	1	1	1	2417259010	Bushing
015G	1	1	1	1	2112274030	Reflector
016G	1	1	1	1	2116302023	Dial, Meter
017G	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
018G	4	4	4	4	2276005050	Clamper
019G	1	1	1	1	2116303010	Mask
020G	1	1	1	1	2116160080	Bracket
021G	1	1	1	1	51280308B0	B.H. Tapped Screw B3 x 8
022G	3	3	3	3	2276005050	Clamper
023G	1	1	1	1	2116355014	Lens
026G	1	1	1	1	2112303040	Mask
030G	1	1	1	1	2112053020	Cover
031G	2	2	2	2	2112053010	Cover
032G	2	2	2	2	2112053030	Cover
201G			2	2	3926120010	Insulator
005G	6	6	6	6	51100308A9	B.H.M. Screw B3 x 8

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
B	1	1	1	1	2219273410	Flywheel Assembly
001i	1	1	1	1	2219273012	Flywheel
009i	1	1	1	1	2215353010	Ring
012i	2	2	2	2	2219063030	Escutcheon
014i	2	2	2	2	51690306Q9	Socket Screw 3 x 6
003i	1	1	1	1	2112104500	Retainer
008i	1	1	1	1	2219112012	Shaft
016i	3	3	3	3	51280308B0	B.H. Tapped Screw B3 x 8
⚠S001	1	1			SP01010240	Push Switch, Power
⚠S001			1	1	SP02010330	Push Switch, Power
⚠V001	1	1	1	1	IN10080510	Lamp 100mA 8V
⚠G001			1	1	DF17223800	Film Cap. 0.022μF ±20%
⚠G002			1	1	DF17223800	Film Cap. 0.022μF ±20%
S011	1	1	1	1	SR00040030	Rotary Switch, Selector
S012	1	1	1	1	SR00050010	Rotary Switch, Rec. Mode
J043	1	1	1	1	YJ06001040	Jack (3P)

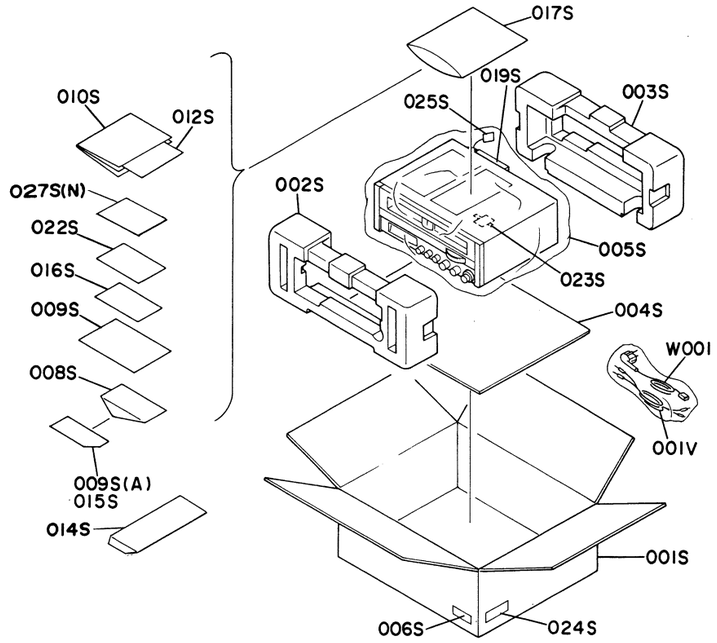


- (U): for U.S.A.
- (C): for Canada
- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
001F	1	1	1	1	2116126010	Stay (L)
002F	1	1	1	1	2116126020	Stay (R)
003F	1	1	1	1	2116126030	Stay, Center
005F	4	4	4	4	51280308B0	B.H. Tapped Screw B3 x 8
011F	1	1	1	1	2112271010	Holder
012F	2	2	2	2	1502271010	Holder
014F	2	2	2	2	51260310B0	B.H. Tapped Screw B3 x 10
015F	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
017F	1	1	1	1	2116160052	Bracket (R)
018F	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
020F	4	4	4	4	51260308B0	B.H. Tapped Screw B3 x 8
022F	4	4	4	4	54110009A0	Flat Washer, P.
031F	1	1	1	1	2116004012	Table
032F	4	4	4	4	52040410A0	H. Head Bolt, S.F H4 x 10
035F	3	3	3	3	51280308B0	B.H. Tapped Screw B3 x 8
036F	3	3	3	3	51280308B0	B.H. Tapped Screw B3 x 8
037F	1	1	1	1	2886005052	Clamper
038F	1	1	1	1	2886005020	Clamper
039F	4	4	4	4	51260308B0	B.H. Tapped Screw B3 x 8
040F	1	1	1	1	51100308A9	B.H. M. Screw B3 x 8
042F	2	2	2	2	2886005020	Clamper
045F	1	1	1	1	2116160062	Bracket
046F	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
049F	1	1	1	1	2886005020	Clamper
050F	1	1	1	1	62030039W0	Lug
052F	1	1	1	1	2116118010	Spacer
201F	3	3	3	3	2259109040	Shield
202F	1	1	1	1	2259109060	Shield
203F	1	1	1	1	2112109010	Shield
009G	2	2	2	2	51282605B0	B.H. Tapped Screw B2.6 x 5
024G	1	1	1	1	2112160072	Bracket
025G	1	1	1	1	51280308B0	B.H. Tapped Screw B3 x 8
001i	1	1	1	1	2112159010	Drum
002i	1	1	1	1	71101689L0	Spring
009i	1	1	1	1	72040805A0	String (180)
012i	1	1	1	1	2112103012	Pointer
013i	1	1	1	1	2112103022	Pointer
016i	2	2	2	2	2276262500	Pulley
020i	1	1	1	1	2112303033	Mask
021i	2	2	2	2	2276262500	Pulley
001H	1	1	1	1	2116302010	Dial
002H	4	4	4	4	51280308B0	B.H. Tapped Screw B3 x 8
003H	2	2	2	2	2276005050	Clamper
021F	1	1	1	1	2116056012	Buffer

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
001L	1	1	1	1	2116267110	Heatsink
004L	2	2	2	2	2116160040	Bracket
005L	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
006L	2	2	2	2	51260308B0	B.H. Tapped Screw B3 x 8
007L	1	1	1	1	2116160072	Bracket
008L	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
010L	1	1	1	1	2276160040	Bracket
011L	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
012L	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
014L	1	1	1	1	2112271020	Holder
015L	1	1	1	1	2116272013	Pole
016L	1	1	1	1	51280308B0	B.H. Tapped Screw B3 x 8
018L	1	1	1	1	2116267020	Heatsink
019L	1	1	1	1	51280310B0	B.H. Tapped Screw B3 x 10
020L	2	2	2	2	51260308B0	B.H. Tapped Screw B3 x 8
021L	1	1	1	1	2116115010	Spring
022L	1	1	1	1	51280308B0	B.H. Tapped Screw B3 x 8
024L	4	4	4	4	51260316B0	B.H. Tapped Screw B3 x 16
⚠L001	1				TS18505010	Power Transformer
⚠L001		1			TS18505020	Power Transformer
⚠L001			1	1	TS19611010	Power Transformer
L051	1				LF11000250	Antenna Coil
L051		1	1	1	LF11000240	Antenna Coil
J041	1	1	1	1	YJ06001060	Jack (7P)
J042	1	1	1	1	YJ06001060	Jack (7P)
SV01	1	1	1	1	SS04040030	Slide Switch, Selector
SV02	1	1	1	1	SS04060010	Slide Switch, Rec. Mode

6.6 [H01-99] PACKING MATERIALS



- (U): for U.S.A.
- (C): for Canada
- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
001S			1	1	2116801020	Packing Case
001S	1	1	1	1	2116801012	Packing Case
002S	1	1	1	1	2112809012	Cushion
003S	1	1	1	1	2112809020	Cushion
004S	1	1	1	1	2918107260	Sheet
005S	1	1	1	1	9090909040	Polyethy Sheet
006S	3				9526019010	Serial NO. Card
006S		3			9226019020	Serial NO. Card
006S			3	3	9526019060	Serial NO. Card
008S		1			2918813012	Envelope
009S	1				2818854026	Guarantee Card
009S		1			2818854042	Guarantee Card
009S				1	9631000090	Guarantee Card
010S	1				2116851012	Instructions
010S		1	1	1	2112851310	Instructions
012S	1			1	2116851020	Instructions
012S		1			2116851050	Instructions
012S			1		2116851030	Instructions
014S	1				2225813012	Envelope

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
015S		1			9630000180	Guarantee Card
016S		1			9650000053	S. Station Card
017S	1	1	1	1	9013025010	Polyethy Bag
019S	1	1	1	1	2864804010	Sleeve
022S		1			2886851100	Instruction
023S			1	1	2731821012	Silicagel
024S		2			9510901020	Label
025S			1	1	9560000043	Hang Tag
027S			1		2116856010	Circuit Diagram
001V	1	1	1	1	ZA02000070	EXT. Antenna
⚠W001			1		ZC01805020	A.C. Power Cord
⚠W001				1	ZC02006030	A.C. Power Cord

6.7 ELECTRICAL PARTS

- (U): for U.S.A.
- (C): for Canada
- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
						P100-TUNER/PHONO CIRCUIT BOARD
P100	1	1	1	1	YK21161710	P.W. Board, Tuner/Phono
	1	1			ZZ21161710	P.W. Board Assembly
			1	1	ZZ21168710	P.W. Board Assembly
						P100-CAPACITORS
CA01	1	1	1	1	DA17103010	Ceramic 0.01μF ±30%
CA02	1	1	1	1	DF55391090	Film 390pF ±5%
CA03	1	1	1	1	DA15150010	Ceramic 15pF ±5%
CA04	1	1	1	1	DA17103010	Ceramic 0.01μF ±30%
CA05	1	1	1	1	DA17103010	Ceramic 0.01μF ±30%
CA06	1	1	1	1	DA15470010	Ceramic 47pF ±5%
CA07	1	1	1	1	DA17103010	Ceramic 0.01μF ±30%
CA08	1	1	1	1	EA10701690	Elect 100μF 16V
CA09	1	1	1	1	DK18403320	Ceramic 0.04μF
CA10	1	1	1	1	DK17103300	Ceramic 0.01μF ±20%
CA11	1	1	1	1	DA17103010	Ceramic 0.01μF ±30%
CA12	1	1	1	1	EA10601690	Elect 10μF 16V
CA13	1	1	1	1	EA10602530	Elect 10μF 25V
CA14	1	1	1	1	DA17103010	Ceramic 0.01μF ±30%
CA15	1	1	1	1	DA17103010	Ceramic 0.01μF ±30%
CA16	1	1	1	1	EA22405030	Elect 0.22μF 50V
CA17	1	1	1	1	EA10505090	Elect 1μF 50V
CA18	1	1	1	1	DK18223310	Ceramic 0.022μF
CA19	1	1	1	1	EA22505030	Elect 2.2μF 50V
CA20	1	1	1	1	EA22601630	Elect 22μF 16V
C101	1	1	1	1	DD15150370	Ceramic 15pF ±5%
C102	1	1	1	1	DA17103010	Ceramic 0.01μF ±30%
C103	1	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C104	1	1	1	1	DA17103010	Ceramic 0.01μF ±30%
C105	1	1	1	1	DD15150370	Ceramic 15pF ±5%
C106	1	1	1	1	DD10030370	Ceramic 3pF ±0.25pF
C107	1	1	1	1	DD10050370	Ceramic 5pF ±0.25pF
C108	1	1	1	1	DA16331010	Ceramic 330pF ±20%
C109	1	1	1	1	DA17103010	Ceramic 0.01μF ±30%
C110	1	1	1	1	CA32400100	Variable FM-3, AM-2
C111	1	1	1	1	CT11000080	Trimming 10pF
C112	1	1	1	1	DD10010300	Ceramic 1pF ±0.25pF
C113	1	1	1	1	DD15150340	Ceramic 15pF ±5%
C114	1	1	1	1	DD11100300	Ceramic 10pF ±0.5pF
C115	1	1	1	1	DD15300300	Ceramic 30pF ±5%
C116	1	1	1	1	DD15150300	Ceramic 15pF ±5%
C117	1	1	1	1	DA17103010	Ceramic 0.01μF ±30%
C118	1	1	1	1	DA17103010	Ceramic 0.01μF ±30%
C119	1	1	1	1	DA17103010	Ceramic 0.01μF ±30%
C120	1	1	1	1	DA17103010	Ceramic 0.01μF ±30%
C121	1	1	1	1	DA17103010	Ceramic 0.01μF ±30%
C122	1	1	1	1	DK18403320	Ceramic 0.04μF
C123	1	1	1	1	DK18403320	Ceramic 0.04μF
C124	1	1	1	1	EA10505090	Elect 1μF 50V
C125	1	1	1	1	DA16331010	Ceramic 330pF ±10%
C126	1	1	1	1	DK18403320	Ceramic 0.04μF
C127	1	1	1	1	EA10505090	Elect 1μF 50V
C128	1	1	1	1	DK18403320	Ceramic 0.04μF
C129	1	1	1	1	EA10701630	Elect 100μF 16V
C130	1	1	1	1	DK18403320	Ceramic 0.04μF
C131	1	1	1	1	DK18403320	Ceramic 0.04μF
C132	1	1	1	1	DK18403320	Ceramic 0.04μF
C133	1	1	1	1	DK18403320	Ceramic 0.04μF
C134	1	1	1	1	EA10505030	Elect 1μF 50V
C136	1	1	1	1	DK18403320	Ceramic 0.04μF
C137	1	1	1	1	DK18104010	Ceramic 0.1μF
C138	1	1	1	1	DK18403320	Ceramic 0.04μF
C139	1	1	1	1	EA22700690	Elect 220μF 6.3V
C301	1	1	1	1	EA47505030	Elect 4.7μF 50V
C302	1	1	1	1	DF65501010	Film 500pF ±5%
C303	1	1	1	1	DF15473300	Film 0.047μF ±5%
C304	1	1	1	1	EQ10505010	Elect 1μF 50V
C305	1	1	1	1	EV68501060	Elect 6.8μF 10V
C306	1	1	1	1	DF65821010	Film 820pF ±5%
C307	1	1	1	1	EQ10505010	Elect 1μF 50V
C308	1	1	1	1	EA10505030	Elect 1μF 50V
C309	1	1	1	1	EA10701630	Elect 100μF 16V
C310	1	1	1	1	EA10701630	Elect 100μF 16V
C311	1	1	1	1	EA10505030	Elect 1μF 50V
C312	1	1	1	1	EA10505030	Elect 1μF 50V
C313	1	1			DF15332300	Film 3300pF ±5%
C313			1	1	DF15222300	Film 2200pF ±5%
C314	1	1			DF15332300	Film 3300pF ±5%
C314			1	1	DF15222300	Film 2200pF ±5%
C315	1	1	1	1	EA10405030	Elect 0.1μF 50V
C316	1	1	1	1	EA10405030	Elect 0.1μF 50V
C317	1	1	1	1	DA15101010	Ceramic 100pF ±5%
C318	1	1	1	1	DA15101010	Ceramic 100pF ±5%
C319	1	1	1	1	EA47505030	Elect 4.7μF 50V
C320	1	1	1	1	EA47505030	Elect 4.7μF 50V
C321	1	1	1	1	EA47601030	Elect 47μF 10V
C322	1	1	1	1	EA47505030	Elect 4.7μF 50V
C401	1	1	1	1	EE33502540	Elect 3.3μF 25V
C402	1	1	1	1	EE33502540	Elect 3.3μF 25V
C403	1	1	1	1	DA15221010	Ceramic 220pF ±5%
C404	1	1	1	1	DA15221010	Ceramic 220pF ±5%
C405	1	1	1	1	EA47601030	Elect 47μF ±20%
C406	1	1	1	1	EA47601030	Elect 47μF ±20%
C407	1	1	1	1	DA15101010	Ceramic 100pF ±5%
C408	1	1	1	1	DA15101010	Ceramic 100pF ±5%
C409	1	1	1	1	DF15182300	Film 1800pF ±5%
C410	1	1	1	1	DF15182300	Film 1800pF ±5%
C411	1	1	1	1	DF15682300	Film 6800pF ±5%
C412	1	1	1	1	DF15682300	Film 6800pF ±5%
C413	1	1	1	1	DA15100010	Ceramic 10pF ±5%
C414	1	1	1	1	DA15100010	Ceramic 10pF ±5%
C415	1	1	1	1	EA47505030	Elect 4.7μF 50V
C416	1	1	1	1	EA47505030	Elect 4.7μF 50V
C417	1	1	1	1	EA10702530	Elect 100μF 25V
C421	1	1	1	1	DK17103300	Ceramic 0.01μF 50V

- (U): for U.S.A.
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- (A): for Australia

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
						P100-RESISTORS (All Resistors are ±5% & ¼W)
RA01	1	1	1	1	GD05102140	1KΩ
RA02	1	1	1	1	GD05222140	2.2KΩ
RA03	1	1	1	1	GG05101140	100Ω
RA04	1	1	1	1	GD05273140	27KΩ
RA05	1	1	1	1	GD05563140	56KΩ
RA06	1	1	1	1	GD05333140	33KΩ
RA07	1	1	1	1	GD05102140	1KΩ
RA08	1	1	1	1	GD05222140	2.2KΩ
RA09	1	1	1	1	GD05103140	10KΩ
RA10	1	1	1	1	GD05103140	10KΩ
RA12	1	1	1	1	GD05473140	47KΩ
RA13	1	1	1	1	GD05103140	10KΩ
RA14	1	1	1	1	GD05103140	10KΩ
RA15	1	1	1	1	GD05223140	22KΩ
RA17	1	1	1	1	GD05473140	47KΩ
R101	1	1	1	1	GD05105140	1MΩ
R102	1	1	1	1	GD05101140	100Ω
R103	1	1	1	1	GD05101140	100Ω
R104	1	1	1	1	GD05101140	100Ω
R105	1	1	1	1	GD05104140	100KΩ
R106	1	1	1	1	GD05223140	22KΩ
R107	1	1	1	1	GD05472140	4.7KΩ
R108	1	1	1	1	GD05102140	1KΩ
R109	1	1	1	1	GD05183140	18KΩ
R110	1	1	1	1	GG05101140	100Ω
R111	1	1	1	1	GD05103140	10KΩ
R112	1	1	1	1	GD05103140	10KΩ
R113	1	1	1	1	GD05272140	2.7KΩ
R114	1	1	1	1	GD05331140	330Ω
R115	1	1	1	1	GD05153140	15KΩ
R116	1	1	1	1	GD05272140	2.7KΩ
R117	1	1	1	1	GD05331140	330Ω
R118	1	1	1	1	GD05102140	1KΩ
R119	1	1	1	1	GG05101140	100Ω
R120	1	1	1	1	GD05331140	330Ω
R121	1	1	1	1	GD05473140	47KΩ
R122	1	1	1	1	GD05123140	12KΩ
R123	1	1	1	1	GD05103140	10KΩ
R124	1	1	1	1	GD05103140	10KΩ
R125	1	1	1	1	GD05183140	18KΩ
R126	1	1	1	1	GD05332140	3.3KΩ
R127	1	1	1	1	GD05222140	2.2KΩ
R128	1	1	1	1	GD05103140	10KΩ
R129	1	1	1	1	GD05473140	47KΩ
R130	1	1	1	1	GD05821140	820Ω
R131	1	1	1	1	RA01030260	10KΩ Trimming
R132	1	1	1	1	GD05474140	470KΩ
R133	1	1	1	1	GD05331140	330Ω
R134	1	1	1	1	GD05183140	18KΩ
R135	1	1	1	1	GD05123140	12KΩ
R136	1	1	1	1	GD05822140	8.2KΩ
R138	1	1	1	1	GD05123140	12KΩ
R140	1	1	1	1	GG05470140	47Ω
R301	1	1	1	1	GD05224140	220KΩ
R302	1	1	1	1	RA04720080	4.7KΩ Trimming
R303	1	1	1	1	GD05153140	15KΩ
R304	1	1	1	1	GD05821140	820Ω
R305	1	1	1	1	GD05102140	1KΩ

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
R306	1	1	1	1	RA05020160	5KΩ Trimming
R307	1	1	1	1	GD05103140	10KΩ
R308	1	1	1	1	GD05154140	150KΩ
R309	1	1	1	1	GD05473140	47KΩ
R310	1	1	1	1	GD05102140	1KΩ
R311	1	1	1	1	GD05473140	47KΩ
R312	1	1	1	1	GG05470140	47Ω
R313	1	1	1	1	GD05472140	4.7KΩ
R314	1	1	1	1	GD05472140	4.7KΩ
R315	1	1	1	1	GD05472140	4.7KΩ
R316	1	1	1	1	GD05472140	4.7KΩ
R317	1	1	1	1	GD05273140	27KΩ
R318	1	1	1	1	GD05273140	27KΩ
R319	1	1	1	1	GD05224140	220KΩ
R320	1	1	1	1	GD05224140	220KΩ
R321	1	1	1	1	GD05155140	1.5MΩ
R322	1	1	1	1	GD05155140	1.5MΩ
R323	1	1	1	1	GD05184140	180KΩ
R324	1	1	1	1	GD05184140	180KΩ
R325	1	1	1	1	GD05102140	1KΩ
R326	1	1	1	1	RA01030260	10KΩ Trimming
R327	1	1	1	1	GD05103140	10KΩ
R328	1	1	1	1	GD05103140	10KΩ
R329	1	1	1	1	GD05471140	470Ω
R330	1	1	1	1	GD05471140	470Ω
R331	1	1	1	1	GD05472140	4.7KΩ
R332	1	1	1	1	GD05472140	4.7KΩ
R333	1	1	1	1	GD05473140	47KΩ
R334	1	1	1	1	GD05473140	47KΩ
R335	1	1	1	1	GD05471140	470Ω
R336	1	1	1	1	GD05471140	470Ω
⚠R337	1	1	1	1	GG05101140	100Ω
R338	1	1	1	1	GD05473140	47KΩ
R339	1	1	1	1	GD05333140	33KΩ
R340	1	1	1	1	GD05274140	270KΩ
R341	1	1	1	1	GD05104140	100KΩ
R342	1	1	1	1	GD05103140	10KΩ
R343	1	1	1	1	GD05103140	10KΩ
R344	1	1	1	1	GD05103140	10KΩ
R401	1	1	1	1	GD05823140	82KΩ
R402	1	1	1	1	GD05823140	82KΩ
R403	1	1	1	1	GD05222140	2.2KΩ
R404	1	1	1	1	GD05222140	2.2KΩ
R405	1	1	1	1	GD05104140	100KΩ
R406	1	1	1	1	GD05104140	100KΩ
R407	1	1	1	1	GD05121140	120Ω
R408	1	1	1	1	GD05121140	120Ω
R409	1	1	1	1	GD05471140	470Ω
R410	1	1	1	1	GD05471140	470Ω
R411	1	1	1	1	GD05393140	39KΩ
R412	1	1	1	1	GD05393140	39KΩ
R413	1	1	1	1	GD05474140	470KΩ
R414	1	1	1	1	GD05474140	470KΩ
R415	1	1	1	1	GD05102140	1KΩ
R416	1	1	1	1	GD05102140	1KΩ
R417	1	1	1	1	GD05221140	220Ω
R418	1	1	1	1	GD05221140	220Ω
R419	1	1	1	1	GD05104140	100KΩ
R420	1	1	1	1	GD05104140	100KΩ
R421	1	1	1	1	GD05151140	150Ω
R422	1	1	1	1	GD05151140	150Ω

- (U): for U.S.A.
- (C): for Canada
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- (A): for Australia

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
						P100-SEMICONDUCTORS
QA01	1	1	1	1	HC10025060	IC μPC1178C
QA02	1	1	1	1	HV00006120	Varistor MV-203
QA03	1	1	1	1	HD20011050	Diode 1S1555
QA04	1	1	1	1	HT326342B0	Transistor 2SC2634
Q101	1	1	1	1	HF400451B0	F.E.T. 3SK45(B)
Q102	1	1	1	1	HT310471C0	Transistor 2SC1047(C)
Q103	1	1	1	1	HT308291C0	Transistor 2SC829(C)
Q104	1	1	1	1	HT310471C0	Transistor 2SC1047(C)
Q105	1	1	1	1	HC10033010	IC HA11225
Q106	1	1	1	1	HD20011050	Diode 1S1555
Q107	1	1	1	1	HD20011050	Diode 1S1555
Q108	1	1	1	1	HD20011050	Diode 1S1555
Q301	1	1	1	1	HC10001420	IC KB4437
Q302	1	1	1	1	HD20011050	Diode 1S1555
Q303	1	1	1	1	HT326342B0	Transistor 2SC2634(S or T)
Q304	1	1	1	1	HT326342B0	Transistor 2SC2634(S or T)
Q305	1	1	1	1	HT326342B0	Transistor 2SC2634(S or T)
Q306	1	1	1	1	HT326342B0	Transistor 2SC2634(S or T)
Q307	1	1	1	1	HT111272B0	Transistor 2SA1127(S or T)
Q308	1	1	1	1	HT111272B0	Transistor 2SA1127(S or T)
Q309	1	1	1	1	HT326342B0	Transistor 2SC2634(S or T)
Q310	1	1	1	1	HT326342B0	Transistor 2SC2634(S or T)
Q311	1	1	1	1	HD20011050	Diode 1S1555
Q312	1	1	1	1	HD20011050	Diode 1S1555
Q401	1	1	1	1	HC10034010	IC HA1457W
Q402	1	1	1	1	HC10034010	IC HA1457W
						P100-MISCELLANEOUS
FA01	1	1	1	1	FF10045200	Ceramic Filter CF SFZ450B
F101	1	1	1	1	FF11070050	Ceramic Filter SFE10.7MD-1
F102	1	1			FF11070050	Ceramic Filter SFE10.7MD-1
F102			1	1	FF11070130	Ceramic Filter SFE10.7MS3G
F103	1	1			FF11070050	Ceramic Filter SFE10.7MD-1
F103			1	1	FF11070130	Ceramic Filter SFE10.7MS3G
JV01	1	1	1	1	YT02040280	Terminal, Phono/Aux
JV02	1	1	1	1	YT02040280	Terminal, Tape-1
J101	1	1	1	1	YT01050010	Terminal, Antenna
LA01	1	1	1	1	LO10010480	OSC Coil
LA02	1	1	1	1	LI10010730	I.F.T.
LA03	1	1	1	1	LI10010740	I.F.T.
LA04	1	1	1	1	LC11540020	Choke Coil 150μH
L101	1	1	1	1	LA12028040	Antenna Coil
L102	1	1	1	1	LL24800030	Coil
L103	1	1	1	1	LK11800030	Coil
L104	1	1	1	1	LC17510010	Choke Coil 0.75μH
L105	1	1	1	1	LI10016010	I.F.T.
L106	1	1	1	1	LO12036010	OSC Coil
L107	1	1	1	1	LC13320050	Choke Coil 3.3μH
L108	1	1	1	1	LC12230060	Choke Coil 22μH
L109	1	1	1	1	LI10156240	I.F.T.
L110	1	1	1	1	LI10156230	I.F.T.
L301	1	1	1	1	LS20010020	M.P.X. Coil 38KHz
SV01	1	1	1	1	SS04040030	Slide Switch, Selector
SV02	1	1	1	1	SS04060010	Slide Switch, Rec. Mode

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
						P700-POWER AMP. CIRCUIT BOARD
P700	1	1	1	1	YK21161810	P.W. Board, Power Amp.
	1	1	1	1	ZZ21161810	P.W. Board Assembly
						P700-CAPACITORS
C701	1	1	1	1	EA47706310	Elect 470μF 63V
C702	1	1	1	1	EA47706310	Elect 470μF 63V
C703	1	1	1	1	EA47706310	Elect 470μF 63V
C704	1	1	1	1	EA47706310	Elect 470μF 63V
C705	1	1	1	1	DF17473500	Film 0.047μF ±20%
C706	1	1	1	1	DF17473500	Film 0.047μF ±20%
C707	1	1	1	1	EA10602530	Elect 10μF 25V
C708	1	1	1	1	EA10602530	Elect 10μF 25V
C709	1	1	1	1	DF16473300	Film 0.047μF ±10%
C710	1	1	1	1	DF16473300	Film 0.047μF ±10%
C711	1	1	1	1	EA47601030	Elect 47μF 10V
C712	1	1	1	1	EA10701630	Elect 100μF 16V
						P700-RESISTORS
⚠R701	1	1	1	1	GO10332050	0.33Ω 5W
⚠R702	1	1	1	1	GO10332050	0.33Ω 5W
⚠R703	1	1	1	1	GO10332050	0.33Ω 5W
⚠R704	1	1	1	1	GO10332050	0.33Ω 5W
R705	1	1	1	1	RC10022120	2.2Ω ±10% ½W
R706	1	1	1	1	RC10022120	2.2Ω ±10% ½W
R707	1	1	1	1	GA05330030	33Ω ±5% 3W
R708	1	1	1	1	GA05330030	33Ω ±5% 3W
R709	1	1	1	1	GA05562010	5.6KΩ ±5% 1W
R710	1	1	1	1	GA05562010	5.6KΩ ±5% 1W
R711	1	1	1	1	GD05223140	22KΩ ±5% ¼W
R712	1	1	1	1	GD05153140	15KΩ ±5% ¼W
R713	1	1	1	1	GD05562140	5.6KΩ ±5% ¼W
R714	1	1	1	1	GD05154140	150KΩ ±5% ¼W
R715	1	1	1	1	GD05393140	39KΩ ±5% ¼W
R716	1	1	1	1	GG05100140	10Ω ±5% ¼W
R717	1	1	1	1	GD05333140	33KΩ ±5% ¼W
						P700-SEMICONDUCTORS
⚠Q701	1	1	1	1	HC10033030	IC STK-0080 Mark 2
⚠Q702	1	1	1	1	HC10033030	IC STK-0080 Mark 2
Q703	1	1	1	1	HD20005010	Diode W06B
Q704	1	1	1	1	HD20005010	Diode W06B
Q705	1	1	1	1	HD20005010	Diode W06B
Q706	1	1	1	1	HD20005010	Diode W06B
⚠Q707	1	1	1	1	HD20003210	Diode 1S2471
Q708	1	1	1	1	HD20011050	Diode 1S1555
Q709	1	1	1	1	HT314001E0	Transistor 2SC1400(E)
Q710	1	1	1	1	HT314001E0	Transistor 2SC1400(E)
Q711	1	1	1	1	HT405712B0	Transistor 2SD571(L or K)
						P700-MISCELLANEOUS
J701	1	1	1	1	YP06001060	Plug (7P)
J702	1	1	1	1	YP06001060	Plug (7P)
L701	1	1	1	1	LL23915120	Coil
L702	1	1	1	1	LL23915120	Coil
⚠L703	1	1	1	1	LY20200140	Relay

- (U): for U.S.A.
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REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
						P800-POWER SUPPLY CIRCUIT BOARD
P800	1	1	1	1	YK21161880	P.W. Board, Power Supply
	1				ZZ21161880	P.W. Board Assembly
		1			ZZ21162880	P.W. Board Assembly
			1	1	ZZ21168880	P.W. Board Assembly
						P800-CAPACITORS
⚠C801	1	1	1	1	EB10905610	Elect 10000μF 56V
⚠C802	1	1	1	1	EB10905610	Elect 10000μF 56V
⚠C803	1	1	1	1	DK18103510	Ceramic 0.01μF
⚠C804	1	1	1	1	DK18103510	Ceramic 0.01μF
⚠C805	1	1	1	1	EA10705090	Elect 100μF 50V
⚠C806	1	1	1	1	EA10705090	Elect 100μF 50V
C807	1	1	1	1	EA10605030	Elect 10μF 50V
C808	1	1	1	1	EA10605030	Elect 10μF 50V
C809	1	1	1	1	EA33505030	Elect 3.3μF 50V
C810	1	1	1	1	EA33505030	Elect 3.3μF 50V
C811	1	1	1	1	DK18403320	Ceramic 0.04μF
C812	1	1	1	1	DK18403320	Ceramic 0.04μF
C813	1	1	1	1	EA10701690	Elect 100μF 16V
C814	1	1	1	1	EA33505090	Elect 3.3μF 50V
C815	1	1	1	1	EA33505090	Elect 3.3μF 50V
C816	1	1	1	1	EA10603530	Elect 10μF 35V
C817	1	1	1	1	EA10701630	Elect 100μF 16V
⚠C818	1	1	1	1	EA10703590	Elect 100μF 35V
⚠C819	1	1	1	1	EA10701630	Elect 100μF 16V
C820	1	1	1	1	DK18403320	Ceramic 0.04μF +100%–0
						P800-RESISTORS (All Resistors are ±5% & ¼W)
⚠R801	1	1	1	1	RF05100140	10Ω Fusible
⚠R802	1	1	1	1	RF05100140	10Ω Fusible
⚠R803	1	1	1	1	GP05121030	120Ω 3W
R804	1	1	1	1	GD05103140	10KΩ
R805	1	1	1	1	GD05103140	10KΩ
R806	1	1	1	1	GD05472140	4.7KΩ
R807	1	1	1	1	GD05472140	4.7KΩ
R808	1	1	1	1	GD05472140	4.7KΩ
R809	1	1	1	1	GD05472140	4.7KΩ
R810	1	1	1	1	GD05182140	1.8KΩ
R811	1	1	1	1	GD05223140	22KΩ
R812	1	1	1	1	GD05332140	3.3KΩ
R813	1	1	1	1	GD05562140	5.6KΩ
R814	1	1	1	1	GD05102140	1KΩ
R815	1	1	1	1	GD05474140	470KΩ
R816	1	1	1	1	GD05223140	22KΩ
R817	1	1	1	1	GD05272140	2.7KΩ
R818	1	1	1	1	GD05272140	2.7KΩ
R820	1	1			RC10225120	2.2MΩ ±10% ½W
						P800-SEMICONDUCTORS
⚠Q801	1	1	1	1	HD20011290	Diode S3VB-20
⚠Q802	1	1	1	1	HD20011290	Diode S3VB-20
⚠Q803	1	1	1	1	HD20011290	Diode S3VB-20
⚠Q804	1	1	1	1	HD20011290	Diode S3VB-20
⚠Q805	1	1	1	1	HD20005010	Diode W06B
⚠Q806	1	1	1	1	HD20005010	Diode W06B
⚠Q807	1	1	1	1	HD20005010	Diode W06B
⚠Q808	1	1	1	1	HD20005010	Diode W06B
⚠Q809	1	1	1	1	HD20005010	Diode W06B
⚠Q810	1	1	1	1	HT326342A0	Transistor 2SC2634(R or S)

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
Q811	1	1	1	1	HT309452B0	Transistor 2SC945(P or Q)
⚠Q812	1	1	1	1	HT403131Q0	Transistor 2SD313(E)
Q813	1	1	1	1	HD20011050	Diode 1S1555
Q814	1	1	1	1	HD30027090	Zener WZ-140
⚠Q815	1	1	1	1	HT107202B0	Transistor 2SA720(Q or R)
⚠Q816	1	1	1	1	HT111272A0	Transistor 2SA1127(R or S)
Q817	1	1	1	1	HD30027090	Zener WZ-140
Q818	1	1	1	1	HT107332A0	Transistor 2SA733(P or Q)
						P800-MISCELLANEOUS
⚠F801	1				FS10500040	Fuse 5A 250V
⚠F801		1			FS10500060	Fuse 5A 250V
F802			1	1	FS10050800	Fuse 0.5A 250V
J831			1	1	YJ08000270	Jack, Fuse Holder
J832			1	1	YJ08000270	Jack, Fuse Holder
J833	1	1			YJ08000170	Jack, Fuse Holder
J834	1	1			YJ08000170	Jack, Fuse Holder
						PE00-TONE AMP. CIRCUIT BOARD
PE00	1	1	1	1	YK21161850	P.W. Board, Tone Amp.
	1	1	1	1	ZZ21161850	P.W. Board Assembly
						PE00-CAPACITORS
CE01	1	1	1	1	EE10505040	Elect 1μF 50V
CE02	1	1	1	1	EE10505040	Elect 1μF 50V
CE03	1	1	1	1	DK16101300	Ceramic 100pF ±10%
CE04	1	1	1	1	DK16101300	Ceramic 100pF ±10%
CE05	1	1	1	1	EE22505040	Elect 2.2μF 50V
CE06	1	1	1	1	EE22505040	Elect 2.2μF 50V
CE07	1	1	1	1	DK16101300	Ceramic 100pF ±10%
CE08	1	1	1	1	DK16101300	Ceramic 100pF ±10%
CE09	1	1	1	1	DF16222300	Film 2200pF ±10%
CE10	1	1	1	1	DF16222300	Film 2200pF ±10%
CE11	1	1	1	1	DF16562300	Film 5600pF ±10%
CE12	1	1	1	1	DF16562300	Film 5600pF ±10%
CE15	1	1	1	1	DF16183300	Film 0.018μF ±10%
CE16	1	1	1	1	DF16183300	Film 0.018μF ±10%
CE17	1	1	1	1	DF16183300	Film 0.018μF ±10%
CE18	1	1	1	1	DF16183300	Film 0.018μF ±10%
CE19	1	1	1	1	DF16822300	Film 8200pF ±10%
CE20	1	1	1	1	DF16822300	Film 8200pF ±10%
CE21	1	1	1	1	DD15560370	Ceramic 56pF ±10%
CE22	1	1	1	1	DD15560370	Ceramic 56pF ±10%
CE23	1	1	1	1	EA33505030	Elect 3.3μF 50V
CE24	1	1	1	1	EA33505030	Elect 3.3μF 50V
						PE00-RESISTORS (All Resistors are ±5% & ¼W)
RE01	1	1	1	1	GD05683140	68KΩ
RE02	1	1	1	1	GD05683140	68KΩ
RE03	1	1	1	1	GD05821140	820Ω
RE04	1	1	1	1	GD05821140	820Ω
RE05	1	1	1	1	GD05392140	3.9KΩ
RE06	1	1	1	1	GD05392140	3.9KΩ
RE07	1	1	1	1	GD05682140	6.8KΩ
RE08	1	1	1	1	GD05682140	6.8KΩ
RE09	1	1	1	1	GD05682140	6.8KΩ
RE10	1	1	1	1	GD05682140	6.8KΩ

- (U): for U.S.A.
- (C): for Canada
- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
RE11	1	1	1	1	GD05562140	5.6KΩ
RE12	1	1	1	1	GD05562140	5.6KΩ
RE13	1	1	1	1	GD05562140	5.6KΩ
RE14	1	1	1	1	GD05562140	5.6KΩ
RE15	1	1	1	1	GD05223140	22KΩ
RE16	1	1	1	1	GD05223140	22KΩ
RE17	1	1	1	1	GD05223140	22KΩ
RE18	1	1	1	1	GD05223140	22KΩ
RE19	1	1	1	1	GD05223140	22KΩ
RE20	1	1	1	1	GD05223140	22KΩ
RE21	1	1	1	1	GD05103140	10KΩ
RE22	1	1	1	1	GD05103140	10KΩ
RE23	1	1	1	1	GD05470140	47Ω
RE24	1	1	1	1	GD05470140	47Ω
RE25	1	1	1	1	RM01040150	100KΩ(B) Variable
RE26	1	1	1	1	RM01040150	100KΩ(B) Variable
RE27	1	1	1	1	RM01040150	100KΩ(B) Variable
						PE00-SEMICONDUCTORS
QE01	1	1	1	1	HC10003090	IC NJM4558D
QE02	1	1	1	1	HC10003090	IC NJM4558D
						PE00-FILTER
KF01	1	1	1	1	FP11070060	Ceramic Filter
						PG00-VOLUME CIRCUIT BOARD
PG00	1	1	1	1	YK21161870	P.W. Board, Volume
	1	1	1	1	ZZ21161870	P.W. Board Assembly
RG01	1	1	1	1	RQ02040030	100KΩ(B), 200KΩ(W) Variable
WG01	1	1	1	1	YU05160210	Jumper Lead
WG02	1	1	1	1	YU03115210	Jumper Lead
						PK01-POWER LED METER CIRCUIT BOARD
PK01	1	1	1	1	YN21142210	P.W. Board, Power Led Meter
	1	1	1	1	ZZ21162210	P.W. Board Assembly
QK01	1	1	1	1	HI11202320	L.E.D. GL-112R4
QK02	1	1	1	1	HI11202320	L.E.D. GL-112R4
						PK02-POWER LED METER AMP. CIRCUIT BOARD
PK02	1	1	1	1	YN21142220	P.W. Board, Power Led Meter Amp.
	1	1	1	1	ZZ21162220	P.W. Board Assembly
						PK02-CAPACITORS
CK01	1	1	1	1	EA10602530	Elect 10μF 25V
CK02	1	1	1	1	EA10602530	Elect 10μF 25V
CK03	1	1	1	1	EA10602530	Elect 10μF 25V
CK04	1	1	1	1	EA10602530	Elect 10μF 25V
CK05	1	1	1	1	EA10602530	Elect 10μF 25V
CK06	1	1	1	1	EA10602530	Elect 10μF 25V
CK07	1	1	1	1	EA10702590	Elect 100μF 25V

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
						PK02-RESISTORS (All Resistors are ±5% & ¼W)
RK01	1	1	1	1	RA02030060	20KΩ(B) Trimming
RK02	1	1	1	1	RA02030060	20KΩ(B) Trimming
RK03	1	1	1	1	GD05152140	1.5KΩ
RK04	1	1	1	1	GD05152140	1.5KΩ
RK05	1	1	1	1	GD05152140	1.5KΩ
RK06	1	1	1	1	GD05152140	1.5KΩ
RK07	1	1	1	1	GD05152140	1.5KΩ
RK08	1	1	1	1	GD05152140	1.5KΩ
RK09	1	1	1	1	GD05152140	1.5KΩ
RK10	1	1	1	1	GD05152140	1.5KΩ
RK11	1	1	1	1	GD05152140	1.5KΩ
RK12	1	1	1	1	GD05152140	1.5KΩ
RK13	1	1	1	1	GD05152140	1.5KΩ
RK14	1	1	1	1	GD05152140	1.5KΩ
RK15	1	1	1	1	GD05152140	1.5KΩ
RK16	1	1	1	1	GD05152140	1.5KΩ
RK17	1	1	1	1	GD05152140	1.5KΩ
RK18	1	1	1	1	GD05152140	1.5KΩ
RK19	1	1	1	1	GD05152140	1.5KΩ
RK20	1	1	1	1	GD05152140	1.5KΩ
RK21	1	1	1	1	GD05152140	1.5KΩ
RK22	1	1	1	1	GD05152140	1.5KΩ
RK23	1	1	1	1	GD05152140	1.5KΩ
RK24	1	1	1	1	GD05152140	1.5KΩ
RK25	1	1	1	1	GD05152140	1.5KΩ
RK26	1	1	1	1	GD05152140	1.5KΩ
RK27	1	1	1	1	GD05103140	10KΩ
RK28	1	1	1	1	GD05103140	10KΩ
RK29	1	1	1	1	GD05103140	10KΩ
RK30	1	1	1	1	GD05103140	10KΩ
RK31	1	1	1	1	GD05123140	12KΩ
RK32	1	1	1	1	GD05123140	12KΩ
RK33	1	1	1	1	GD05182140	1.8KΩ
RK34	1	1	1	1	GD05182140	1.8KΩ
RK35	1	1	1	1	GD05121140	120Ω
RK36	1	1	1	1	GD05121140	120Ω
RK37	1	1	1	1	GD05272140	2.7KΩ
RK38	1	1	1	1	GD05272140	2.7KΩ
RK39	1	1	1	1	GD05274140	270KΩ
RK40	1	1	1	1	GD05274140	270KΩ
RK41	1	1	1	1	GD05153140	15KΩ
RK42	1	1	1	1	GD05153140	15KΩ
RK44	1	1	1	1	GD05153140	15KΩ
RK45	1	1	1	1	GD05822140	8.2KΩ
RK46	1	1	1	1	GD05822140	8.2KΩ
RK47	1	1	1	1	GD05562140	5.6KΩ
RK48	1	1	1	1	GD05562140	5.6KΩ
RK49	1	1	1	1	GD05181140	180Ω
RK50	1	1	1	1	GD05181140	180Ω
RK51	1	1	1	1	GD05103140	10KΩ
RK52	1	1	1	1	GD05103140	10KΩ
RK53	1	1	1	1	GD05153140	15KΩ
RK54	1	1	1	1	GD05392140	3.9KΩ
RK55	1	1	1	1	GG05271140	270Ω

- (U): for U.S.A.
- (C): for Canada
- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
						PK02-SEMICONDUCTORS
QK03	1	1	1	1	HC10002320	IC IR2418A
QK04	1	1	1	1	HC10002320	IC IR2418A
QK05	1	1	1	1	HH00008030	Thermistor SDT-1000
QK06	1	1	1	1	HH00008030	Thermistor SDT-1000
QK07	1	1	1	1	HT111272A0	Transistor 2SA1127(R or S)
QK08	1	1	1	1	HT111272A0	Transistor 2SA1127(R or S)
QK09	1	1	1	1	HT326342A0	Transistor 2SC2634(R or S)
QK10	1	1	1	1	HT326342A0	Transistor 2SC2634(R or S)
QK11	1	1	1	1	HD20011050	Diode 1S1555
QK12	1	1	1	1	HD20011050	Diode 1S1555
QK13	1	1	1	1	HD20011050	Diode 1S1555
QK14	1	1	1	1	HD20011050	Diode 1S1555
QK15	1	1	1	1	HD30059090	Zener XZ-185
						PN00-VOLTAGE AMP. CIRCUIT BOARD
PN00	1	1	1	1	YN21161820	P.W. Board, Voltage Amp.
	1	1	1	1	ZZ21161820	P.W. Board Assembly
						PN00-CAPACITORS
CN01	1	1	1	1	EA47505030	Elect 4.7μF 50V
CN02	1	1	1	1	EA47505030	Elect 4.7μF 50V
CN03	1	1	1	1	EA10505030	Elect 1μF 50V
CN04	1	1	1	1	EA10505030	Elect 1μF 50V
CN05	1	1	1	1	DD10050300	Ceramic 5pF ±0.25pF
CN06	1	1	1	1	DD10050300	Ceramic 5pF ±0.25pF
CN07	1	1	1	1	DD15270510	Ceramic 27pF ±5%
CN08	1	1	1	1	DD15270510	Ceramic 27pF ±5%
CN09	1	1	1	1	DF16332300	Film 3300pF ±10%
CN10	1	1	1	1	DF16332300	Film 3300pF ±10%
CN11	1	1	1	1	DF16332300	Film 3300pF ±10%
CN12	1	1	1	1	DF16332300	Film 3300pF ±10%
CN13	1	1	1	1	EA10706310	Elect 100μF 63V
CN14	1	1	1	1	EA10706310	Elect 100μF 63V
						PN00-RESISTORS (All Resistors are ±5% & ¼W)
RN01	1	1	1	1	GD05474140	470KΩ
RN02	1	1	1	1	GD05474140	470KΩ
RN03	1	1	1	1	GD05221140	220Ω
RN04	1	1	1	1	GD05221140	220Ω
RN05	1	1	1	1	GD05333140	33KΩ
RN06	1	1	1	1	GD05333140	33KΩ
RN07	1	1	1	1	GD05273140	27KΩ
RN08	1	1	1	1	GD05273140	27KΩ
RN09	1	1	1	1	RA01030460	10KΩ Trimming
RN10	1	1	1	1	RA01030460	10KΩ Trimming
RN11	1	1	1	1	GD05222140	2.2KΩ
RN12	1	1	1	1	GD05222140	2.2KΩ
RN13	1	1	1	1	GD05683140	68KΩ
RN14	1	1	1	1	GD05683140	68KΩ
RN15	1	1	1	1	GG05332140	3.3KΩ
RN16	1	1	1	1	GG05332140	3.3KΩ
RN17	1	1	1	1	GD05333140	33KΩ
RN18	1	1	1	1	GD05333140	33KΩ
RN19	1	1	1	1	GG05332140	3.3KΩ
RN20	1	1	1	1	GG05332140	3.3KΩ

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
RN21	1	1	1	1	GD05331140	330Ω
RN22	1	1	1	1	GD05331140	330Ω
RN23	1	1	1	1	GD05331140	330Ω
RN24	1	1	1	1	GD05331140	330Ω
RN25	1	1	1	1	GG05101140	100Ω
RN26	1	1	1	1	GG05101140	100Ω
RN27	1	1	1	1	GD05100140	10Ω
RN28	1	1	1	1	GD05100140	10Ω
RN29	1	1	1	1	GD05223140	22KΩ
RN30	1	1	1	1	GD05223140	22KΩ
						PN00-SEMICONDUCTORS
QN01	1	1	1	1	HD20011050	Diode 1S1555
QN02	1	1	1	1	HD20011050	Diode 1S1555
QN03	1	1	1	1	HD20011050	Diode 1S1555
QN04	1	1	1	1	HD20011050	Diode 1S1555
QN05	1	1	1	1	HT309451Q0	Transistor 2SC945(Q)
QN06	1	1	1	1	HT309451Q0	Transistor 2SC945(Q)
QN07	1	1	1	1	HT107331Q0	Transistor 2SA733(Q)
QN08	1	1	1	1	HT107331Q0	Transistor 2SA733(Q)
QN09	1	1	1	1	HD20011050	Diode 1S1555
QN10	1	1	1	1	HD20011050	Diode 1S1555
QN11	1	1	1	1	HD20011050	Diode 1S1555
QN12	1	1	1	1	HD20011050	Diode 1S1555
QN13	1	1	1	1	HC10032030	IC STK-3082
						PN00-PLUG
JN01	1	1	1	1	YP06000600	Plug
JN02	1	1	1	1	YP06000600	Plug
						PS00-SWITCH CIRCUIT BOARD
PS00	1	1	1	1	YK21161860	P.W. Board, Switch
	1	1	1	1	ZZ21161860	P.W. Board Assembly
						PS00-CAPACITORS
CS01	1	1	1	1	DF15472300	Film 4700pF ±5%
CS02	1	1	1	1	DF15472300	Film 4700pF ±5%
CS03	1	1	1	1	DK16271300	Ceramic 270pF ±10%
CS04	1	1	1	1	DK16271300	Ceramic 270pF ±10%
CS05	1	1	1	1	EA47405030	Elect 0.47μF 50V
CS06	1	1	1	1	EA47405030	Elect 0.47μF 50V
CS07	1	1	1	1	DF16473300	Film 0.047μF ±10%
CS08	1	1	1	1	DF16473300	Film 0.047μF ±10%
CS09	1	1	1	1	DK16681300	Ceramic 680pF ±10%
CS10	1	1	1	1	DK16681300	Ceramic 680pF ±10%
						PS00-RESISTORS (All Resistors are ±5% & ¼W)
RS01	1	1	1	1	GD05564140	560KΩ
RS02	1	1	1	1	GD05564140	560KΩ
RS03	1	1	1	1	GD05104140	100KΩ
RS04	1	1	1	1	GD05104140	100KΩ
RS05	1	1	1	1	GD05392140	3.9KΩ
RS06	1	1	1	1	GD05392140	3.9KΩ
RS07	1	1	1	1	GD05473140	47KΩ
RS08	1	1	1	1	GD05473140	47KΩ
RS09	1	1	1	1	GD05682140	6.8KΩ
RS10	1	1	1	1	GD05682140	6.8KΩ

- (U): for U.S.A.
- (C): for Canada
- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
RS11	1	1	1	1	GD05222140	2.2KΩ
RS12	1	1	1	1	GD05222140	2.2KΩ
RS13	1	1	1	1	GD05103140	10KΩ
RS15	1	1	1	1	GD05273140	27KΩ
RS16	1	1	1	1	GD05273140	27KΩ
RS17	1	1	1	1	GD05154140	150KΩ
						PS00-MISCELLANEOUS
JS04	1	1	1	1	YP06001040	Plug (3P)
SS01	1	1	1	1	SP04060100	Push Switch
						PT00-SPEAKER SWITCH CIRCUIT BOARD
PT00	1	1	1	1	YK21161830	P.W. Board, Speaker Switch
	1	1	1	1	ZZ21161830	P.W. Board Assembly
						PT00-RESISTORS
RT01	1	1	1	1	GP05331030	330Ω ±5% 3W
RT02	1	1	1	1	GP05331030	330Ω ±5% 3W
						PT00-SWITCH
ST01	1	1	1	1	SP04020200	Push Switch, Speaker
						PV00-TAPE INPUT CIRCUIT BOARD
PV00	1	1	1	1	YK21161720	P.W. Board, Tape Input
	1	1	1	1	ZZ21161720	P.W. Board Assembly
JV11	1	1	1	1	YT02040280	Terminal, Tape 1 IN/Out
WV01	1	1	1	1	YU07060210	Jumper Lead
						PW00-HEADPHONE CIRCUIT BOARD
PW00	1	1	1	1	YK21161840	P.W. Board, Headphone
	1	1	1	1	ZZ21161840	P.W. Board Assembly
JW01	1	1	1	1	YJ01001340	Jack, Headphone
						PX00-METER CIRCUIT BOARD
PX00	1	1	1	1	YK21161750	P.W. Board, Meter
MX01	1	1	1	1	IM11000010	D.C. Meter, Center
MX02	1	1	1	1	IM11000020	D.C. Meter, Signal

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
						PY00-STEREO LED CIRCUIT BOARD
PY00	1	1	1	1	YK21161740	P.W. Board, Stereo Led
	1	1	1	1	ZZ21161740	P.W. Board Assembly
QY01	1	1	1	1	HI10009020	L.E.D. LN26RPLCF
						PZ00-DIAL POINTER LAMP
PZ00	1	1	1	1	YK21161730	P.W. Board, Dial Pointer Lamp
	1	1	1	1	YK21161730	P.W. Board Assembly
JZ01	1	1	1	1	YP10001200	Plug
JZ02	1	1	1	1	YP10001200	Plug
⚠MZ01	1	1	1	1	IN10080460	Lamp 100mA 8V

(W01-99)	Assembly and Wiring
(T01-99)	Adjustment
(X01-00)	Correction

7. TECHNICAL SPECIFICATIONS

[FOR U.S.A. & CANADA]

AMPLIFIER SECTION

RATED POWER OUTPUT, MINIMUM CONTINUOUS AVERAGE POWER
PER CHANNEL, BOTH CHANNELS DRIVEN ..... 88 W
POWER BAND ..... 20 Hz to 20 kHz
TOTAL HORMONIC DISTORTION 0.05%
LOAD IMPEDANCE ..... 4 OHMS
RATED POWER OUTPUT, MINIMUM CONTINUOUS AVERAGE POWER
PER CHANNEL, BOTH CHANNELS DRIVEN ..... 70 W
POWER BAND ..... 20 Hz to 20 kHz
TOTAL HARMONIC DISTORTION 0.025%
LOAD IMPEDANCE ..... 8 OHMS

I.M. Distortion
(I.H.F. method, 60 Hz and 7 kHz mixed 4:1 at rated power output)
at 8 ohm load impedance 0.025%
at 4 ohm load impedance 0.05%
Damping Factor (at 20 Hz) 50

PREAMPLIFIER SECTION

Phono
Imput Oeverload at 1 kHz ..... 225 mV
Equivalent Input Noise ("A" Weighted) ..... 0.1 μV
Dynamic Range
(Dynamic Range is the ratio of input overload to equivalent input noise) ..... 127 dB
Input Sensitivity ..... 2.7 mV
Input Impedance ..... 47 kohms
Input Capacitance ..... 100 pF
Frequency Response, RIAA 20 Hz to 20 kHz ..... ±0.2 dB
Signal-to-Noise Ratio ("A" Weighted)
(at rated output and 10 mV input) ..... 90 dB
High Level (Aux and Tape)
Input Sensitivity ..... 160 mV
Input Impedance ..... 20 kohms
Frequency Response
(includes power amp) ..... 10 Hz to 70 kHz ± 1.0 dB
Signal-to-Noise Ratio ("A" Weighted)
(ref. to rated output and 775 mV input) ..... 98 dB
Output Levels
Tape Out (ref. 10 mV at Phone inputs) ..... 580 mV
Output Impedance
Tape Out ..... 500 ohms

FM TUNER SECTION

Sensitivity
IHF Usable ..... 9.8 dBf (1.7 μV)
IHF 50 dB Quieting (Mono) ..... 13.2 dBf (2.5 μV)
(Stereo) ..... 36.1 dBf (38 μV)
Quieting Slope (Mono)
RF Input for 30 dB Quieting ..... 7.2 dBf (1.3 μV)
Quieting at:
20 dBf (5.5 μV) ..... 55 dB
25 dBf (10 μV) ..... 60 dB
40 dBf (55 μV) ..... 74 dB
65 dBf (1000 μV) ..... 80 dB

Quieting Slope (Stereo)
Quieting at:
30 dBf (17 μV) ..... 42 dB
40 dBf (55 μV) ..... 54 dB
50 dBf (173 μV) ..... 64 dB
65 dBf (1000 μV) ..... 72 dB
Distortion (Mono) at 65 dBf (1000 μV)
100 Hz 0.2%
1000 Hz 0.2%
6000 Hz 0.3%
Distortion (Stereo) at 65 dBf (1000 μV)
100 Hz 0.3%
1000 Hz 0.25%
6000 Hz 0.4%
Frequency Response
30 Hz to 15 kHz
Mono and Stereo ..... +0.5 dB, −1.0 dB
Capture Ratio at 65 dBf (1000 μV) ..... 1.0 dB
Alternate Channel Selectivity ..... 65 dB
Spurious Response Rejection ..... 90 dB
Image Response Rejection ..... 55 dB
I.F. Rejection (Balanced) ..... 90 dB
A.M. Suppression ..... 55 dB
Stereo Separation at 1 kHz ..... 45 dB
Subcarrier Rejection ..... 65 dB

AM TUNER SECTION

IHF Usable Sensitivity ..... 20 μV
Signal-to-Noise Ratio ..... 50 dB
Alternate Channel Selectivity ..... 45 dB
Image Rejection ..... 45 dB
Spurious Response Rejection ..... 55 dB
I.F. Rejection ..... 40 dB

GENERAL

Power Requirements ..... 120 VAC, 60 Hz
Power Consumption at rated output, both channels operating ..... 300 W
Idling Power (Volume Control at zero) ..... 28 W
Dimensions:
Panel Width ..... 466 mm (18-3/8")
Panel Height ..... 140 mm (5-1/2")
Depth ..... 353 mm (13-7/8")
Weight:
Unit alone ..... 11 kg (24.2 lbs)
Packed for Shipment ..... 13 kg (28.6 lbs)

[FOR EUROPE]

AUDIO SECTION

POWER OUTPUT, DIN, 4 OHM, PER CHANNEL ..... **129 W**
POWER OUTPUT, FTC AMERICAN STANDARDS, 4 OHM, PER CHANNEL ..... **88 W**
TOTAL HARMONIC DISTORTION AT RATED POWER OUTPUT **0.06%**
I.M. DISTORTION AT RATED POWER OUTPUT
(250 Hz AND 8 kHz MIXED, AMPLITUDE RATIO 4:1) **0.06%**
POWER OUTPUT, DIN, 8 OHM, PER CHANNEL ..... **91 W**
POWER OUTPUT, FTC AMERICAN STANDARDS, 8 OHM, PER CHANNEL ..... **70 W**
TOTAL HARMONIC DISTORTION AT RATED POWER OUTPUT **0.03%**
I.M. DISTORTION AT RATED POWER OUTPUT
(250 Hz AND 8 kHz MIXED, AMPLITUDE RATIO 4:1) **0.03%**
POWER BANDWIDTH ..... **10 Hz ~ 40 kHz**

	(40 Hz)	(1 kHz)	(12.5 kHz)
DAMPING FACTOR 8 OHM	**65**	**65**	**60**

Frequency Response
Phono (RIAA) ..... ±0.5 dB
Aux (±1 dB) ..... 18 Hz ~ 40 kHz
Signal-to-Noise Ratio
Phono ..... 72 dB
Aux ..... 80 dB
Input Terminals
Phono: Input Impedance ..... 47 k ohms
Input Capacitance ..... 100 pF
Input Sensitivity ..... 2.7 mV
Overload Margin ..... 40 dB
Aux: Input Impedance ..... 20 k ohms
Input Sensitivity ..... 160 mV
Phono Equivalent Input Noise ..... 1.2 μV
Phono Dynamic Range (Ratio of input overload to equivalent input noise) ..... 107 dB
Channel Balance (0 to −40 dB/40 Hz ~ 16 kHz)
Phono ..... 2.0 dB
Aux ..... 1.5 dB
Interchannel Crosstalk
Phono 1 kHz ..... 35 dB
Aux 1 kHz ..... 50 dB
Tape 1 kHz ..... 50 dB
Intersource Crosstalk (Worst Point)
1 kHz ..... 50 dB
Output Voltage, 1 kHz
Tape Out ..... 450 mV
Output Impedance, 1 kHz
Tape Out ..... 500 ohms
Headphone Jack Load Impedance ..... 8 ohms

FM TUNER SECTION

Frequency Range ..... 87.5 ~ 108 MHz
Usable Sensitivity 40 kHz Deviation, 98 MHz
Mono, S/N 26 dB ..... 1.4 μV
Stereo, S/N 46 dB ..... 42 μV
Alternate Channel Selectivity, 98 MHz±300 kHz ..... 36 dB
Image Response Rejection, 98 MHz ..... 54 dB
IF Rejection, 98 MHz ..... 100 dB
Spurious Response Rejection, 98 MHz ..... 95 dB
AM Suppression, 98 MHz ..... 60 dB

Signal-to-Noise Ratio, 98 MHz
- Unweighted: Mono . . . . . 72 dB
- Stereo . . . . . 65 dB
- Weighted: Mono . . . . . 62 dB
- Stereo . . . . . 55 dB

Pilot Signal & Subcarrier Rejection
- 19 kHz . . . . . 60 dB
- 38 kHz . . . . . 65 dB

Total Harmonic Distortion, 98 MHz
- Mono 0.08%
- Stereo 0.15%

Frequency Response
- 30 Hz ~ 15 kHz . . . . . +0.3 dB, −1.0 dB

Separation
- Stereo . . . . . 47 dB

Channel Balance . . . . . 0.5 dB
Output Voltage, 1 kHz . . . . . 600 mV
Output Impedance, 1 kHz . . . . . 1 k ohms
Acceptable Load Impedance, 1 kHz . . . . . 47 k ohms
Antenna Terminals
- Balanced . . . . . 300 ohms
- Unbalanced . . . . . 75 ohms

AM TUNER SECTION

Frequency Range . . . . . 515 ~ 1650 kHz
Usable Sensitivity (26 dB S/N 30% Mod., 1 MHz) . . . . . 15 μV
Selectivity, 1 kHz±9 kHz . . . . . 26 dB
Image Rejection, 1 MHz . . . . . 50 dB
IF Rejection, 1 MHz . . . . . 40 dB
Spurious Response Rejection, 1 MHz . . . . . 46 dB
Siganl-to-Noise Ratio, 1 MHz . . . . . 44 dB
Frequency Response, 1 MHz±3 dB . . . . . 35 Hz ~ 1.8 kHz
Total Harmonic Distortion, 1 MHz 0.8%

GENERAL

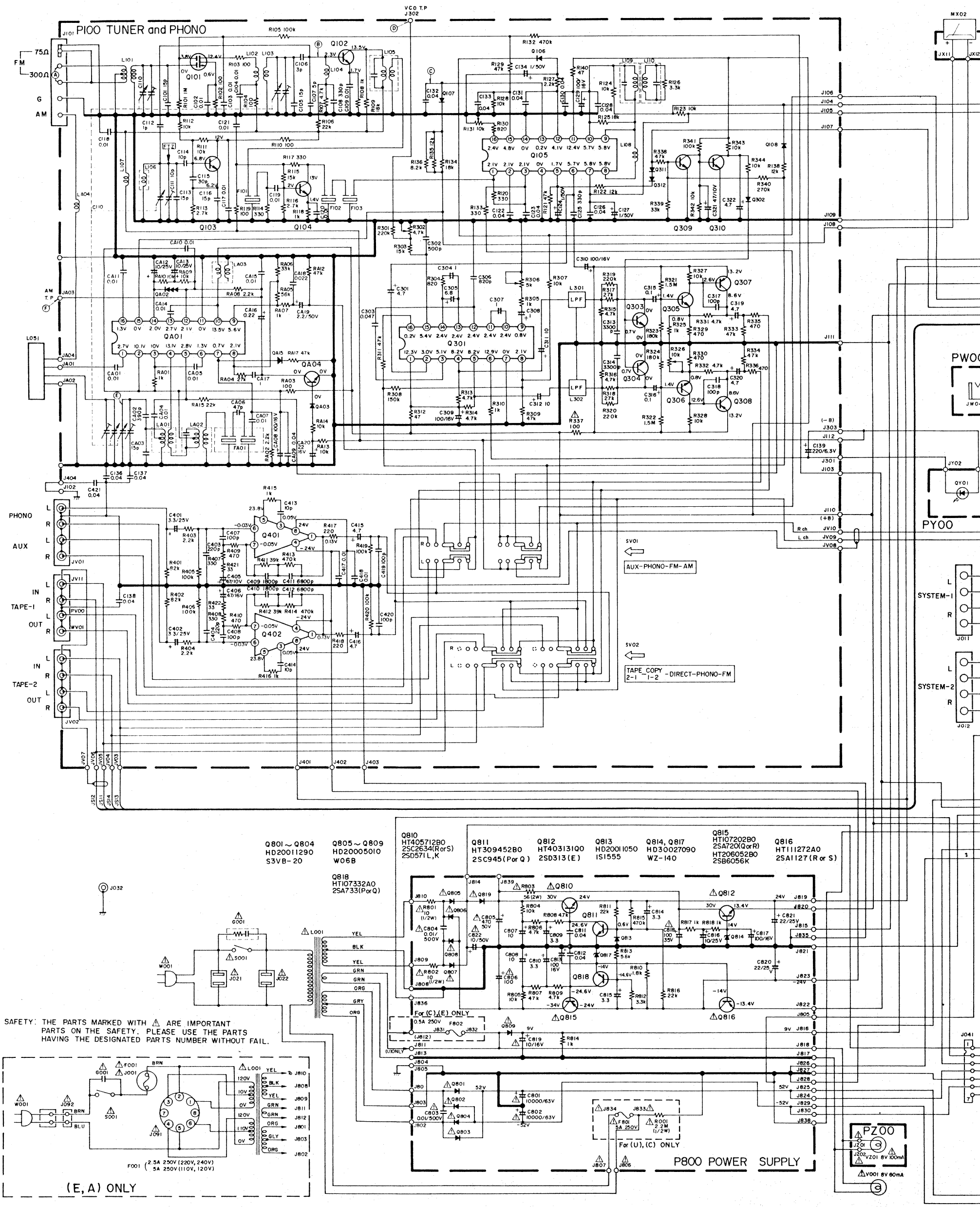
Power Requirements . . . . . 220 V AC, 50 Hz
(N version is featuring an external voltage selector for use on 110 V.
Other versions can be converted by a qualified technician to operate on 240 V.)
Power Consumption at Rated Output, Both Channels Operating . . . . . 300 W
Idling Power . . . . . 28 W
Semiconductor Complement
- Integrated Circuits 12
- Transistors 29
- Diodes 39
- Field Effect Transistors 1

Dimensions
- Panel Width . . . . . 18-3/8" (466 mm)
- Panel Height . . . . . 5-1/2" (140 mm)
- Depth . . . . . 13-7/8" (353 mm)

Weight
- Unit alone . . . . . 26.4 lbs (12 kg)
- Packed for shipment . . . . . 30.8 lbs (14 kg)

SCHEMATIC DIAGRAM

Q101	Q102, Q104	Q103	Q105	Q106～Q108, Q302, Q311, Q312	Q301	Q303～Q306, Q309, Q310	Q307, Q308	Q401, Q402	QA01	QA02	QA03
HF400451B0 3SK45(B)	HT310471C0 2SC1047(C)	HT308291C0 2SC829(C)	HC1003301O HA11225	HD20011050 1S1555	HC10001420 KB4437	HT326342B0 2SC2634(S or T)	HT111272B0 2SA1127(S or T)	HA1457W	HC10025060 μPC1178C	HV00006120 MV-203	HD20011050 1S1555


P100 TUNER and PHONO
P800 POWER SUPPLY
PY00
PZ00
PW00
AUX-PHONO-FM-AM
TAPE_COPY 2-1 1-2 -DIRECT-PHONO-FM
SV01
SV02
FM 75Ω
FM 300Ω
G
AM
PHONO
AUX
IN TAPE-1 OUT
IN TAPE-2 OUT
SYSTEM-1
SYSTEM-2
AM T.P
VCO T.P J302
Q101 Q102 Q103 Q104 Q105 Q106 Q107 Q108 Q301 Q303 Q304 Q305 Q306 Q307 Q308 Q309 Q310 Q311 Q312 Q401 Q402 QA01 QA02 QA03 QA04
Q801 Q802 Q803 Q804 Q805 Q806 Q807 Q808 Q809 Q810 Q811 Q812 Q813 Q814 Q815 Q816 Q817 Q818
For (C),(E) ONLY
For (U), (C) ONLY
(E, A) ONLY
NOTE ON SAFETY: THE PARTS MARKED WITH ⚠ ARE IMPORTANT PARTS ON THE SAFETY. PLEASE USE THE PARTS HAVING THE DESIGNATED PARTS NUMBER WITHOUT FAIL.
F001 (2.5A 250V (220V, 240V) 5A 250V (110V, 120V)
VZ01 8V 100mA
V001 8V 60mA

3 0011050 55 — QA04 HT326342B0 2SC2634

QK01, QK02 HI11202320 GL-112R4 — QK03, QK04 HC10002320 IR2418A — QK05, QK06 HH00008030 SDT-1000 — QK07, QK08 HT1112720 2SA1127 (R or S) — QK09, QK10 HT326342A0 2SC2634 (R or S) — QK11 ~ QK14 HD20011050 IS1555 — QK15 HD30059090 XZ-185

MX02 MX01 PX00 JX11 JX12 JX14 JX13

PK00 LED POWER METER

QK01 QK02 QK03 QK04 QK15 CK07 47/25V

RK25 RK23 RK21 RK19 RK17 RK15 RK04 RK05 RK07 RK09 RK11 RK13 RK53 1.5k RK54 3.9k RK26 RK24 RK22 RK20 RK18 RK16 RK03 RK06 RK08 RK10 RK12 RK14 RK13 RK26 1.5k RK27 10k RK28 10k RK55 270

JK04 13.4V JK06 9V JK05 24V

19V RK49 820 CK03 10/25V RK47 5.6k RK45 8.2k RK41 6.8k QK05 RK51 10k RK29 10k CK05 2.2/25V RK39 270k CK01 10/25V RK01 20k RK37 2.7k RK35 120 RK33 1.8k JK01 QK11 QK13

RK30 10k CK06 2.2/25V RK52 10k RK40 270k RK02 20k CK02 10/25V RK38 2.7k QK12 QK14 JK03

CK04 10/25V RK50 820 RK48 5.6k RK42 6.8k QK06 RK46 8.2k RK36 120 RK34 1.8k RK32 12k JK02

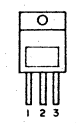
BOTTOM VIEW

1: DRAIN 2: SOURCE 3: GATE 1 4: GATE 2 — Q101

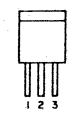
1: SOURCE 2: GATE 3: DRAIN

1: EMITTER 2: COLLECTOR 3: BASE — Q102 ~ Q104, Q303 ~ Q310, Q709, Q710, Q811, Q816, Q818, QA04, QK07 ~ QK10, QN05 ~ QN08

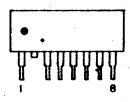
SIDE VIEW



1: BASE 2: COLLECTOR (Flange) 3: EMITTER — Q812

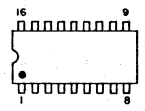


1: EMITTER 2: COLLECTOR 3: BASE — Q711, Q810, Q815



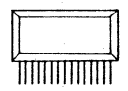
Q401, Q402

TOP VIEW

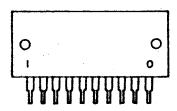


Q105, Q301, QA04, QK03, QK04

QE01, QE02



QN13



Q701, Q702

PW00 JW01 JW02 JW03 JW04 PT00 SPEAKER SW JT07 JT08 JT01 JT02 JT03 JT04 JT05 JT06 SYSTEM1 SYSTEM2 1-L 1-R 2-L 2-R

RT02 330(3W) RT01 330(3W) RS07 47k CS03 270p CS04 270p RS08 47k CS02 4700p CS01 4700p RS05 3.9k RS06 3.9k RS03 100k RS04 100k CS05 LOW-FILTER CS06 RS02 560k HI-FILTER RS01 560k

PS00 PUSH SW. JV06 JV05 JV04 JV03 JS12 JS11 JS07 JS08 JS14 JS13 RS12 2.2k RS11 2.2k TAPE-2 TAPE MON -2 MUTING ST/MONO LOUDNESS RS13 10k CS09 680p CS10 680p RS14 10k CS07 0.047 RS09 6.8k RS15 27k CS08 0.047 RS10 6.8k RS16 27k RS17 150k JS19 JS17 JS18 JS01 JS02 JS03 JS04 JS043 JS06 JS09 JS15 WS01

JY02 JY01 QY01 PY00

QE01, QE02 HC10003090 NOM4558D

WG01 WG02 RG01 200k(B) 100k(B) JE08 JE09 JE07 -13.4V 13.4V

RE03 820 RE04 820 RE01 68k RE02 68k CE01 CE02 CE03 100p RE05 3.9k CE04 100p QE01 RE06 3.9k

RE07 6.8k CE07 100p CE09 2200p CE11 5600p RE11 5.6k RE15 22k RE17 22k CE19 8200p CE15 0.018 RE21 10k CE05 2.2 RE09 6.8k RE25 100k(B) RE13 5.6k RE26 100k(B) CE17 0.018 RE27 100k(B) RE19 22k QE02 CE21 56p CE23 3.3 RE23 47 CE22 56p RE24 47 CE24 3.3

CE06 2.2 RE10 6.8k RE14 5.6k RE20 22k CE18 0.018 CE08 100p CE10 2200p CE12 5600p RE12 5.6k RE16 22k RE18 22k CE16 0.018 RE08 6.8k RE22 10k CE20 8200p

PG00 VR ASSY TONE CONT PE00

JE05 JE04 JE06

QN01 ~ QN04, QN09 ~ QN12 HD20011050 IS1555 — QN05, QN06 HT30945(Q) 2SC945(Q) — QN07, QN08 HT10733(Q) 2SA733(Q) — QN13 HC10032030 STK-3082

JT03 JT04 JT05 JT06 L STEM-1 R STEM-2 J011 J012

Q701, Q702 HC10033030 STK-0080 Mark 2 — Q703 ~ Q706 HD20005010 W06B — Q707 HD20003210 IS2471 — Q708 HD20011050 IS1555 — Q709, Q710 HT31400(E)0 2SC1400 (E) — Q711 HT40571280 2SD571 (L or K)

P700 POWER AMP

J041 J701 J702 J042

-3V -52V 0V -1.7V -0.6V 0.6V 1.7V 0V 52V 3V

Q701 Q702 Q703 Q704 Q705 Q706 Q707 Q708 Q709 Q710 Q711

L703 L701 L702 R701 0.33 R703 0.33 R705 2.2 R706 2.2 R707 33 R708 33 R709 5.6k R710 5.6k R711 22k R712 15k R713 5.6k R714 150k R715 39k R716 10 1.75W R717 33k R702 0.33 R704 0.33

C703 470/63V C701 470/63V C705 0.047 C707 10/25V C709 0.047 C712 100/10V C713 0.047 C708 10/25V C704 470/63V C702 470/63V C706 0.047

VOLTAGE AMP PN00

JN06 JN04 JN05 JN03 JN02 JN01

RN02 470k RN06 33k RN04 220 RN12 2.2k RN10 10k RN08 27k RN30 15k CN04 1 RN14 68k CN06 5p CN16 100p CN02 4.7 RN28 10 RN27 10 RN01 470k RN11 2.2k RN05 33k RN09 10k RN07 27k RN03 220 RN29 15k CN03 1 CN01 4.7 CN15 100p CN05 5p

CN18 4p CN17 4p 50V CN08 7p CN14 100/63V CN13 100/63V CN12 3300p CN10 3300p CN11 3300p CN09 3300p

QN08 QN06 QN07 QN05 QN13

RN20 3.3k RN16 3.3k RN18 33k RN22 330 RN24 330 RN23 330 RN17 33k RN15 3.3k RN19 3.3k RN21 330 RN26 100 RN25 100

QN04 QN12 QN10 QN02 QN03 QN11 QN09 QN01